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ACIDIC PRECIPITATION IN ONTARIO STUDY

CUMULATIVE (28 DAY) PRECIPITATION CHEMISTRY LISTING 1987

JULY 1990

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CUMULATIVE (28 DAY)

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1987

Report Prepared by:
Atmospheric Research and Planning Unit
Air Resources Branch
Ontario Ministry of the Environment

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RECYCLABLE

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This report was prepared by Diane Green of the APIOS Atmospheric Deposition and Chemistry Program. However, the data themselves are a product of the combined efforts of many individuals. Precipitation samples were collected by a large number of site operators, whose names cannot be individually mentioned here, under the coordination of the APIOS environmental technicians Scott Kennedy (in the Southwestern Region), Steve Elliott (in Southeastern Region), Wim Smits (in Northwestern Region), Bill Trayling (Northeastern Region), and J.P. Varto (in Central Region). Sample handling was carried out by Sue Lampinen and Gail Fielding. Chemical analyses were performed at the Laboratory Services Branch under the coordination of Frank Tomassini. Invaluable clerical and computer assistance were provided by Peter Maheras, Joseph Lamb and Roberto Banchon. All enquiries regarding the reported data should be directed to Neville Reid, Coordinator, Atmospheric Deposition and Chemistry Program, at (416) 326-1691.

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PART I

INTRODUCTION

INTRODUCTION

The data listed herein are a summary of the results acquired from the APIOS cumulative precipitation sampling network from January 1, 1987 to December 31, 1987. The sampler utilized for collection of wet cumulative deposition is the M.I.C. Type "A" collector (Sangamo). During May to October when precipitation is mainly in the form of rain, the Sangamo collector is equipped with a 34 cm x 61 cm polyethylene bag insert. For snow and snow/rain collection from November to April, deeper collection vessels are utilized (122 cm) with 34 cm x 122 cm polyethylene gas insert. The deeper collection vessel is utilized to reduce snow blow out. The period of accumulation per sample is 28 days.

All data presented in this report have been screened for validity. Remarks and qualifications have been appended to records, and/or results where necessary. The screening procedure involved checking each record for chemical analysis integrity (e.g. ionic balance, observed vs. theoretical conductance). Gross limits checks were applied to the results. Upper limits were determined as M + 2S where median (M) and scale (S) represent robust estimates of the mean and standard deviation respectively. Scale of the distribution was estimated from interquartile distance, i.e. S = 0.74 (3rd quartile - 1st quartile) based upon logarithmetic transformed results. In a situation where the distribution is significantly bounded by reported detection limits, S may be estimated as follows, S = 1.48 (3rd quartile - 2nd quartile). Lower gross limits were specified by the above method except for those parameters with minimum values near or at the detection limits (Cl, Mg, K, Na, Ph, Mn, Ni, Pb, V, Al, Cu, Zn, Fe, Cd). For these parameters a lower gross limit of zero was utilized. The data were also screened for outliers statistically by applying the Dixon Ratio test to the highest and lowest values observed in each region on a monthly basis. Outliers were determined at the 95% level of confidence. Records and/or results deemed unreliable are flagged but not deleted. Detailed description of the validation procedures as applied to this data set is available from the Ministry upon request.

Station Identification

The station identification is defined by four descriptive fields (e.g., Dorset/Cumulative/Wet #20). The first field refers to the sampling location. The second and third fields describe the sampling internal and the sampling type (e.g., wet or dry) respectively. The last numeric field refers to the index code utilized on the location map. All precipitation chemistry listings are given in alphabetical order by station name within each region.

Cumulative Precipitation Chemistry Listings

Sample type, as coded in the data listings, represents the state of the collected sample at time of removal. The sample date represents the date on which the sample was removed from the sampler. All chemical analyses were done on unfiltered samples. Lab pH entries represent pH measurements obtained at the MOE Laboratory in Toronto.

Total hydrogen ion concentration is reported for either titration of the sample with NaOH to an end point pH of 8.3 or gran analysis titration. For a complete outline of lab analytical methodology please consult the Ontario Ministry of the Environment report "Outlines of Analytical Methods" coordinated by Water Quality Section, Laboratory Services Branch, June 1981.

Of the reported metals, aluminum, copper, iron and zinc were found to display significant adsorptive losses. As a result, a leach solution of 5% HNO_3 (1 litre) is placed in the emptied collection bag for 24 hours. The leach solution is then analysed for the above metals and a final metal concentration is then calculated. Prior to 1987, in the calculation of final metal concentration, if a detection limit <T was encountered, a value corresponding to one half the detection limit was utilized. As of 1987, <T values are no longer halved in these calculations.

Co-located with each sampler is a cumulative precipitation gauge which serves as a primary standard of precipitation during the collection period. However, if the cumulative gauge depth is missing or is thought to be inaccurate, then an approximate precipitation depth is determined. The approximation is made by accumulating the surrounding CLIMAT* station daily depth gauge results individually and then interpolating using a modified kriging method (1) to the APIOS station. Sometimes precipitation gauge results cannot be calculated by the above method, in which case the data are missing in the tables to follow.

Calculation of Equivalent Precipitation Depth (mm)

$$\text{Equivalent Precipitation Depth (mm)} = \frac{\text{Volume Collected (ml)} \times 30.8}{1000}$$

Calculation of Observed Sampling Efficiency

$$\text{\% Efficiency} = \frac{\text{Equivalent Precipitation Depth (mm)} \times 100\ \%}{\text{Gauge Depth (mm)}}$$

Field Comment Code Index

A - Insects in sample
B - Leaves in sample
C - Particulates in sample
D - Fibres in sample
E - Sample not submitted
F - Sampler malfunctioned
G - Sample spilled or leaked
H - Volume incorrect
I - Event(s) missed
J - Wet side open when not precipitating
K - No precipitation collected
L - Part of event missed
M - Dry side open when precipitating
P - Gauge depth incorrect
Q - Other

Office Comment Code Index

C - calculated/observed conductance discrepancy
H - calculated/observed pH discrepancy
J - pH large
M - poor ionic balance
N - abnormal sampler efficiency
T - free hydrogen exceeds total hydrogen
X - sample lost

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* Environment Canada, Atmospheric Environment Service Meteorological Observations in Eastern Canada, Monthly Record.

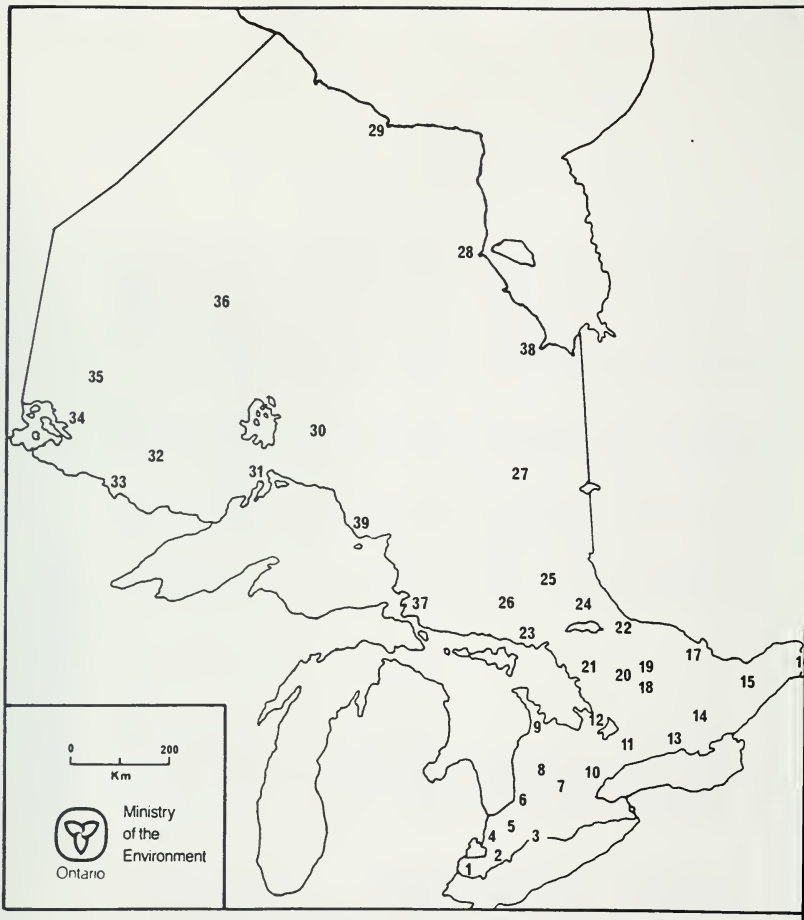
(1) Spatial Trend Analysis and Uncertainly Estimates of Acid Deposition Data in Ontario, A.J.S. Tang and W.H. Chan, reprint #85-6A.6, 78th Air Pollution Control Association Annual Meeting, Detroit, Michigan, June 16-18, 1985.

Analytical Result Remark Code Index

> - actual result greater than value reported
< - actual result less than value reported
T - actual result less than criterion of detection
W - no response, minimum possible result reported
A - approximate value
U - unreliable result
L - bag leach result not available
<L - bag leach result not available and precipitation sample result has been reported as a detection limit
LG - exceedance of lower gross limit checks
UG - exceedance of upper gross limit checks
D - outlier of Dixon Ratio Test
B - exceedance of gross limit checks and outlier of Dixon Ratio Test

PART II

STATION DESCRIPTION AND LOCATION MAP



1. Colchester*
2. Merlin
3. Pt. Stanley*
4. Wilkesport*
5. Alvinston
6. Huron Park
7. Waterloo
8. Palmerston*
9. Shallow Lake*
10. Milton (removed March '84)
11. Uxbridge*
12. Coldwater
13. Campbellford*
14. Cloyne* (repl. Kalladar, June '83)
15. Smith's Falls*
16. Dalhousie Mills*
17. Golden Lake*
18. Wilberforce
19. Whitney
20. Dorset*
21. McKellar*
22. Mattawa*
23. Killarney*
24. Bear Island
25. Gowganda*
26. Azure Lake (repl. Ramsey, June '83)
27. Moonbeam*
28. Attawapiskat (rem. Feb '84)
29. Winisk (rem. Dec '86)
30. Geraldton (replaced Nakina, Aug '83)
31. Dorion*
32. Quetico Centre*
33. Lac la Croix
34. Experimental Lakes Area
35. Ear Falls*
36. Pickle Lake*
37. Turkey Lake*
38. Moosonee* (installed October '85)
39. Otter Island* (summer only)
40. Sutton, Quebec (Intercomparison Site)

* indicates both a wet and dry deposition network site

ONTARIO MINISTRY OF THE ENVIRONMENT
APIOS-ACIDIC PRECIPITATION IN ONTARIO STUDY
CUMULATIVE PRECIPITATION SITES

STATION ID	MOE REGION	STATION NAME	ELEV (M)	LATITUDE (NORTH)	LONGITUDE (WEST)	UTM GRID CO-ORDINATES (NORTHING)	(EASTING)
000001-01-01-1041	SOUTHWESTERN	COLCHESTER	183	41°59'15"	82°55'41"	4649973	340284
000001-01-01-1051	SOUTHWESTERN	MERLIN	191	42°14'47"	82°13'28"	4677645	398983
000001-01-01-1061	SOUTHWESTERN	PORT STANLEY	213	42°40'22"	81°09'55"	4724277	486457
000001-01-01-1071	SOUTHWESTERN	WILKESPORT	183	42°42'11"	82°21'13"	4728515	389135
000001-01-01-1081	SOUTHWESTERN	ALVINSTON	221	42°49'00"	81°50'05"	4740580	431759
000001-01-01-1091	SOUTHWESTERN	SHALLOW LAKE	229	44°34'54"	81°06'58"	4936270	490782
000001-01-01-1101	SOUTHWESTERN	PALMERSTON	389	43°48'19"	80°54'12"	4850035	507776
000001-01-01-1191	SOUTHWESTERN	HURON PARK	250	43°17'28"	81°30'03"	4793050	459370
000001-01-01-2021	SOUTHWESTERN	WATERLOO	343	43°28'39"	80°35'10"	4813710	533474
000001-01-01-3011	CENTRAL	DORSET	320	45°13'26"	78°55'50"	5009656	662429
000001-01-01-3061	CENTRAL	UXBRIDGE	244	44°12'46"	79°12'38"	4896847	642958
000001-01-01-3071	CENTRAL	WILBERFORCE	396	45°00'54"	78°12'56"	4988172	719406
000001-01-01-3081	CENTRAL	CAMPBELLFORD	175	44°17'28"	77°47'33"	4907783	277202
000001-01-01-3101	CENTRAL	COLDWATER	280	44°37'31"	79°32'08"	4942152	616174
000001-01-01-4061	SOUTHEASTERN	SMITH'S FALLS	122	44°56'41"	75°57'48"	4977044	423999
000001-01-01-4071	SOUTHEASTERN	DALHOUSIE MILLS	69	45°19'00"	74°28'13"	5018048	541521
000001-01-01-4081	SOUTHEASTERN	GOLDEN LAKE	160	45°36'48"	77°12'03"	5053226	328397
000001-01-01-4091	SOUTHEASTERN	CLOYNE	259	44°49'10"	77°11'07"	4964999	327221
000001-01-01-4161	SOUTHEASTERN	PT.PETRE	84	43°50'20"	77°09'10"	4856016	326930
000001-01-01-5011	NORTHEASTERN	MCKELLAR	244	45°31'15"	79°55'19"	5041158	584196
000001-01-01-5021	NORTHEASTERN	KILLARNEY	183	45°58'20"	81°29'18"	5090859	462167
000001-01-01-5031	NORTHEASTERN	MATTAWA	198	46°16'39"	78°49'19"	5126968	667810
000001-01-01-5041	NORTHEASTERN	BEAR ISLAND	305	46°58'22"	80°04'30"	5202336	570362
000001-01-01-5061	NORTHEASTERN	GOWGANDA	343	47°39'04"	80°46'32"	5277329	516647
000001-01-01-5071	NORTHEASTERN	MOONBEAM	244	49°19'40"	82°01'10"	5464175	425924
000001-01-01-5091	NORTHEASTERN	WHITNEY	412	45°32'21"	78°15'35"	5046283	713946
000001-01-01-5141	NORTHEASTERN	TURKEY LAKES	440	47°03'15"	84°24'20"	5214246	697468
000001-01-01-5151	NORTHEASTERN	AZURE LAKE	427	47°28'13"	81°52'30"	5257579	434062
000001-01-01-5161	NORTHEASTERN	MOOSONEE	8	51°12'35"	80°42'20"	5672970	520568
000001-01-01-6011	NORTHWESTERN	DORION	244	48°50'33"	88°36'45"	5410982	381684
000001-01-01-6031	NORTHWESTERN	EAR FALLS	350	50°38'31"	93°13'13"	5609814	484424
000001-01-01-6041	NORTHWESTERN	PICKLE LAKE	360	51°02'41"	90°12'04"	5658308	696198
000001-01-01-6061	NORTHWESTERN	LAC LA CROIX	368	48°21'14"	92°12'32"	5355719	558611
000001-01-01-6071	NORTHWESTERN	QUETICO CENTRE	420	48°24'44"	91°12'08"	5363461	633036
000001-01-01-6091	NORTHWESTERN	E.L.A.	123	49°39'50"	93°43'16"	5501292	447960
000001-01-01-6111	NORTHWESTERN	OTTER ISLAND	204	48°06'50"	86°04'25"	5329155	568954
000001-01-01-6121	NORTHWESTERN	GERALDTON	350	49°48'18"	86°45'52"	5516758	516950
000001-01-01-7011	QUEBEC	SUTTON	243	45°04'35"	72°40'35"	4993846	682898

PART III

CENTRAL REGION CUMULATIVE AMBIENT AIR CONCENTRATION RESULTS

ONTARIO MINISTRY OF THE ENVIRONMENT
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
DATA LISTING
CUMULATIVE SAMPLING ANALYSIS RESULTS

---------- REGION=CE STATION=CAMPBELLFORD MIC TYPE A SITE NO.1 ----------

SAMPLE NUMBER	SUBMISSION NUMBER	LIS SAMPLE TYPE	PROJECT CODE	SUB PROJECT CODE	SAMPLE REMOVAL DATE	EXPOSURE DATE	SAMPLE END HR	SAMPLE START HR	PREC. TYPE	PREC. AT EXP	PREC. AT REM.	GAUGE TYPE	GAUGE DEPTH(MM)	EFFICIENCY %
00024587	AP02121	PR	02	01	JAN 27, 1987	DEC 30, 1986	0930	1625	3			2	44.0	56.63
00024598	AP02173	PR	02	01	FEB 24, 1987	JAN 27, 1987	1715	0930	2			2	20.0	63.29
00024599	AP02203	PR	02	01	MAR 24, 1987	FEB 24, 1987	1445	1715	3			3	32.0	56.79
00024600	AP02203	PR	02	01	APR 21, 1987	MAR 26, 1987	1835	1830	3			9	100.8	72.81
00024616	AP02457	PR	02	01	MAY 19, 1987	APR 21, 1987	1800	1835	1			0	50.0	84.82
00024635	AP02255	PR	02	01	JUN 16, 1987	MAY 19, 1987	1706	1800	1			2	50.0	96.22
00069011	AP02374	PR	02	01	JUL 14, 1987	JUN 16, 1987	1620	1706	1			0	68.0	91.27
00069021	AP02374	PR	02	01	AUG 11, 1987	JUL 14, 1987	2030	1620	1			0	57.0	89.21
00069025	AP02374	PR	02	01	SEP 8, 1987	AUG 11, 1987	1845	2030	1			0	90.0	72.76
00094383	AP02457	PR	02	01	OCT 6, 1987	SEP 8, 1987	1845	1845	1			3	55.0	73.36
00094390	AP02457	PR	02	01	NOV 3, 1987	OCT 6, 1987	1700	1845	1	1		2	50.0	83.28
00094374	AP02457	PR	02	01	DEC 1, 1987	NOV 3, 1987	1825	1700	1		1	2	76.0	104.80
00094376	AP02457	PR	02	01	DEC 31, 1987	DEC 1, 1987	2050	1830	3	1		2	61.0	68.26

SAMPLE NUMBER	FIELD COMMENTS	OFFICE COMMENTS	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	ACIDITY.TFE	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L
00024587			809	30.30	4.21	****	1.30	0.74	0.18
00024598			411	D 41.50	4.11	****	3.30	1.18	0.56
00024599	F		590	23.00	4.22	****	1.65	0.49	<T 0.08
00024600	P	Z	2383	20.00	4.34	****	2.20	0.35	0.12
00024616	C		1377	35.50	4.24	****	4.20	0.86	0.64
00024635	C		1562	55.85	3.91	****	6.15	1.00	0.58
00069011			2015	37.50	4.13	****	4.45	0.56	0.18
00069021		C	1651	19.00	4.22	****	5.55	0.62	0.60
00069025		HCM	2126	56.00	4.44	****	2.65	0.43	0.18
00094383			1310	38.00	4.14	****	4.65	0.58	0.44
00094390			1352	42.00	4.05	****	3.15	0.94	0.30
00094374			2586	14.00	4.62	****	1.50	0.32	0.24
00094376		Z	1352	29.50	4.21	****	2.30	0.61	0.22

ONTARIO MINISTRY OF THE ENVIRONMENT
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
DATA LISTING
CUMULATIVE SAMPLING ANALYSIS RESULTS

REGION=CE STATION=CAMPBELLFORD MIC TYPE A SITE NO.1

SAMPLE NUMBER	CHLORIDE MG/L	KJELDAHL MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE MG/L
00024587	0.22	0.240	<T 0.010	<W 0.005	0.085	0.135	<T 0.007	0.002
00024598	0.54	0.920	0.050	0.055	0.315	0.810	0.017	0.004
00024599	0.20	0.100	<T 0.005	<W 0.005	0.060	LG 0.050	<W 0.002	< 0.001
00024600	0.21	0.300	<T 0.015	<T 0.020	0.040	0.220	<T 0.002	0.001
00024616	0.18	0.620	0.100	0.040	0.030	0.570	<T 0.005	0.009
00024635	0.20	0.750	0.085	0.040	0.045	0.900	<W 0.002	0.008
00069011	0.17	0.370	<T 0.025	<W 0.005	0.030	0.360	<T 0.003	0.002
00069021	0.17	0.630	0.085	0.040	<T 0.020	0.565	<W 0.002	0.004
00069025	0.16	0.370	0.025	<T 0.005	0.045	0.270	<T 0.006	0.001
00094383	0.12	0.490	0.050	0.025	0.050	0.460	<T 0.002	0.003
00094390	0.17	0.400	0.035	<T 0.015	0.030	0.370	<T 0.003	0.002
00094374	0.13	0.200	0.030	<T 0.010	0.050	0.180	<W 0.002	D 0.008
00094376	0.25	0.260	<T 0.020	<T 0.005	0.115	0.210	<T 0.004	0.013

SAMPLE NUMBER	NICKEL MG/L	ZINC MG/L	IRON MG/L	LEAD MG/L	VANADIUM MG/L	ALUMINUM MG/L	COPPER MG/L	ACIDITY GRAN UG/L
00024587	0.0002	1DT 0.009	0.014	1DT 0.004	0.0004	0.028	1DT 0.0010	88.90
00024598	D 0.0007	1DT 0.023	0.036	1DT 0.007	D 0.0007	1DT 0.047	1DT 0.0019	104.00
00024599	< 0.0002	< 0.003	0.021	< 0.003	0.0004	0.019	1DT 0.0006	82.30
00024600	< 0.0002	< 0.001	0.009	< 0.001	< 0.0004	0.014	0.0007	67.50
00024616	0.0005	1DT 0.006	0.045	1DT 0.006	< 0.0004	0.040	1DT 0.0007	93.00
00024635	< 0.0002	1DT 0.006	0.041	0.011	< 0.0004	0.056	0.0018	130.00
00069011	0.0002	1DT 0.004	0.016	D 0.016	< 0.0004	0.015	1DT 0.0003	112.00
00069021	0.0006	1DT 0.001	0.027	0.021	< 0.0004	0.033	1DT 0.0006	100.00
00069025	0.0007	0.001	0.014	0.013	< 0.0004	0.012	1DT 0.0002	65.70
00094383	0.0003	1DT 0.004	1DT 0.026	1DT 0.004	< 0.0004	0.018	1DT 0.0006	101.00
00094390	0.0002	1DT 0.007	0.032	0.005	< 0.0004	1DT 0.019	1DT 0.0009	120.00
00094374	< 0.0002	1DT 0.004	0.009	1DT 0.002	< 0.0004	1DT 0.005	1DT 0.0002	49.30
00094376	0.0003	1DT 0.009	0.014	0.005	< 0.0004	1DT 0.014	1DT 0.0008	90.60

ONTARIO MINISTRY OF THE ENVIRONMENT
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
DATA LISTING
CUMULATIVE SAMPLING ANALYSIS RESULTS

---------- REGION=CE STATION=COLDWATER MIC TYPE A SITE NO.1 ----------

SAMPLE NUMBER	SUBMISSION NUMBER	LIS SAMPLE TYPE	PROJECT CODE	SUB PROJECT CODE	SAMPLE REMOVAL DATE	EXPOSURE DATE	SAMPLE END HR	SAMPLE START HR	PREC. TYPE	PREC. AT EXP	PREC. AT REM.	GAUGE TYPE	GAUGE DEPTH(MM)	EFFICIENCY %
00029638	AP02135	PR	02	01	JAN 27, 1987	DEC 30, 1986	0730	0800	2			2	21.0	164.12
00029647	AP02173	PR	02	01	FEB 24, 1987	JAN 27, 1987	0730	0730	3			2	79.0	28.85
00029654	AP02173	PR	02	01	MAR 24, 1987	FEB 24, 1987	0730	0730	3			2	34.0	88.32
00029663	AP02203	PR	02	01	APR 21, 1987	MAR 24, 1987	0745	0730	3			2	87.0	57.17
00029672	AP02226	PR	02	01	MAY 19, 1987	APR 21, 1987	0730	0745	1			3	36.0	85.38
00029679	AP02238	PR	02	01	JUN 16, 1987	MAY 19, 1987	0700	0730	1			3	51.0	93.73
00029689	AP02279	PR	02	01	JUL 14, 1987	JUN 16, 1987	0730	0700	1			3	111.0	94.06
00029697	AP02279	PR	02	01	AUG 14, 1987	JUL 14, 1987	0745	0730	1			3	39.0	9.71
00076005	AP02319	PR	02	01	SEP 8, 1987	AUG 14, 1987	0745	0745	1			3	32.8	83.20
00076006	AP02344	PR	02	01	OCT 6, 1987	SEP 8, 1987	0730	0745	1			3	66.0	101.31
00076030	AP02383	PR	02	01	NOV 3, 1987	OCT 6, 1987	0745	0730	3		1	3	75.0	87.92
00076037	AP02572	PR	02	01	DEC 1, 1987	NOV 3, 1987	0800	0745	3	1		2	128.0	75.39
00076043	AP02439	PR	02	01	DEC 30, 1987	DEC 1, 1987	1520	0800	3			2	68.0	85.24

SAMPLE NUMBER	FIELD COMMENTS	OFFICE COMMENTS	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	ACIDITY.TFE	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L
00029638	G	HCM	1119	D 17.90	4.26	****	1.05	0.49	0.14
00029647		N	740	34.00	4.21	****	2.35	1.09	0.32
00029654			975	17.50	4.36	****	1.30	0.31	<T 0.04
00029663			1615	25.00	4.27	****	2.40	0.54	0.12
00029672	AQ		998	32.28 UG	6.90	****	6.75	0.67	0.78
00029679			1552	47.00	4.06	****	5.55	0.81	0.50
00029689			3390	16.90	4.80	****	2.55	0.40	0.28
00029697	G	Z	123	17.10	4.61	****	1.95	0.35	0.30
00076005		Z	886	37.00	4.20	****	3.60	0.55	0.32
00076006		HM	2171	40.00 B	6.98	****	4.55	0.52	1.22
00076030			2141	****	****	****	****	****	****
00076037			3133	14.00	4.65	****	1.20	0.30	<T 0.04
00076043			1882	19.50	4.41	****	1.40	0.45	0.12

ONTARIO MINISTRY OF THE ENVIRONMENT
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
DATA LISTING
CUMULATIVE SAMPLING ANALYSIS RESULTS

---------- REGION=CE STATION=COLDWATER MIC TYPE A SITE NO.1 ----------

SAMPLE NUMBER	CHLORIDE MG/L	KJELDAHL MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE MG/L
00029638	0.25	0.240	<T 0.020	<T 0.010	0.080	0.210	<T 0.006	< 0.001
00029647	0.35	0.780	0.040	<T 0.015	0.115	0.720	<T 0.007	0.003
00029654	<T 0.05	0.120	<T 0.005	<T 0.005	0.040	LG 0.030	<T 0.005	< 0.001
00029663	0.22	0.240	<T 0.020	<T 0.025	0.045	0.300	0.010	0.002
00029672	0.25	U 3.150	0.180	UG 0.505	UG 0.130	U 2.550	U 0.285	0.008
00029679	0.18	0.810	0.080	0.055	0.030	0.900	<T 0.003	0.005
00029689	0.10	D 1.010	0.055	D 0.120	<T 0.015	0.540	D 0.058	0.004
00029697	0.10	!IS ****	0.060	0.035	0.030	0.210	!IS ****	0.004
00076005	<W 0.01	0.350	0.055	0.050	0.035	0.300	0.010	0.003
00076006	0.18	B 3.950	0.140	B 1.990	0.075	B 2.850	D 0.485	< 0.001
00076030	****	****	****	****	****	****	****	!NR ****
00076037	<T 0.04	0.230	<T 0.005	<W 0.005	D 0.130	0.200	<W 0.002	<T 0.001
00076043	0.11	0.160	<T 0.010	<T 0.005	0.045	0.125	<T 0.002	0.001

SAMPLE NUMBER	NICKEL MG/L	ZINC MG/L	IRON MG/L	LEAD MG/L	VANADIUM MG/L	ALUMINUM MG/L	COPPER MG/L	ACIDITY GRAN UG/L
00029638	< 0.0002	D 0.007	0.017	1DT 0.002	0.0004	0.017	0.0008	70.70
00029647	0.0003	1DT 0.009	0.021	1DT 0.005	0.0004	0.031	1DT 0.0013	86.90
00029654	0.0002	1DT 0.002	1DT 0.003	< 0.002	0.0004	1DT 0.008	1DT 0.0019	62.10
00029663	< 0.0002	1DT 0.002	0.014	1DT 0.001	< 0.0004	0.019	0.0028	80.80
00029672	< 0.0002	1DT 0.007	UG 0.090	0.003	< 0.0004	0.098	1DT 0.0006	26.90
00029679	< 0.0004	0.003	0.040	1DT 0.002	< 0.0004	0.051	0.0014	108.00
00029689	0.0002	1DT 0.007	0.029	1DT 0.003	< 0.0004	0.022	0.0004	36.80
00029697	0.0002	1DT 0.011	UG 0.100	1DT 0.006	< 0.0004	B 0.335	1DT 0.0016	44.20
00076005	< 0.0002	1DT 0.002	0.022	0.011	< 0.0004	0.102	< 0.0004	90.60
00076006	0.0002	0.008	0.055	1DT 0.001	0.0008	0.072	0.0012	D 50.60
00076030	!NR ****	!NR ****	!NR ****	!NR ****	!NR ****	!NR ****	!NR ****	****
00076037	<W 0.0010	<T 0.004	1DT 0.003	<W 0.001	<T 0.0004	<T 0.007	1DT 0.0003	39.80
00076043	< 0.0002	< 0.002	0.010	0.008	< 0.0004	1DT 0.013	0.0020	71.80

ONTARIO MINISTRY OF THE ENVIRONMENT
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
DATA LISTING
CUMULATIVE SAMPLING ANALYSIS RESULTS

---------- REGION=CE STATION=DORSET MIC TYPE A SITE NO.1 ----------

SAMPLE NUMBER	SUBMISSION NUMBER	LIS SAMPLE TYPE	PROJECT CODE	SUB PROJECT CODE	SAMPLE REMOVAL DATE	EXPOSURE DATE	SAMPLE END HR	SAMPLE START HR	PREC. TYPE	PREC. AT EXP	PREC. AT REM.	GAUGE TYPE	GAUGE DEPTH(MM)	EFFICIENCY %
00029634	AP02121	PR	02	01	JAN 27, 1987	DEC 30, 1986	0820	1340	2		1	2	24.0	77.77
00029644	AP02135	PR	02	01	FEB 24, 1987	JAN 27, 1987	1230	0820	2			2	43.0	59.67
00029651	AP02173	PR	02	01	MAR 24, 1987	FEB 24, 1987	1000	1230	3			2	22.0	75.04
00029657	AP02203	PR	02	01	APR 21, 1987	MAR 24, 1987	0950	1000	3			2	86.0	74.86
00029666	AP02226	PR	02	01	MAY 19, 1987	APR 21, 1987	0930	0950	1			3	48.0	92.72
00029676	AP02238	PR	02	01	JUN 16, 1987	MAY 19, 1987	0915	1045	1			3	62.0	105.37
00029684	AP02267	PR	02	01	JUL 14, 1987	JUN 16, 1987	1115	0915	1		1	3	48.0	96.19
00029691	AP02279	PR	02	01	AUG 11, 1987	JUL 14, 1987	0930	1115	1	1		3	17.0	108.71
00076002	AP02309	PR	02	01	SEP 8, 1987	AUG 11, 1987	1030	0930	1			0	59.0	94.23
00076009	AP02344	PR	02	01	OCT 6, 1987	SEP 8, 1987	0930	1030	1			3	66.0	105.19
00076016	AP02383	PR	02	01	NOV 3, 1987	OCT 6, 1987	0836	0930	3		1	3	90.0	92.74
00076034	AP02407	PR	02	01	DEC 1, 1987	NOV 3, 1987	0910	0836	3			2	77.0	81.60
00076040	AP02439	PR	02	01	DEC 29, 1987	DEC 1, 1987	1000	0910	3			2	98.0	69.58

SAMPLE NUMBER	FIELD COMMENTS	OFFICE COMMENTS	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	ACIDITY.TFE	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L
00029634			606	30.30	4.24	****	1.55	0.77	0.16
00029644			833	29.30	4.23	****	1.40	0.88	0.20
00029651			536	15.50	4.41	****	1.05	0.28	<T 0.02
00029657			2139	21.00	4.33	****	1.90	0.41	0.14
00029666			1445	35.67	4.36	****	5.50	0.88	UG 0.96
00029676			2121	51.48	3.95	****	5.40	0.79	0.44
00029684			1499	22.40	4.38	****	2.25	0.35	0.18
00029691			600	37.00	4.12	****	3.50	0.60	0.26
00076002			1805	40.50	4.05	****	4.10	0.66	D 0.52
00076009			2254	35.00	4.23	****	3.60	0.45	0.26
00076016			2710	32.00	4.21	****	3.50	0.82	0.46
00076034			2040	22.00	4.41	****	1.75	0.54	0.20
00076040	G		2214	15.50	4.50	****	1.05	0.39	<T 0.04

ONTARIO MINISTRY OF THE ENVIRONMENT
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
DATA LISTING
CUMULATIVE SAMPLING ANALYSIS RESULTS

---------- REGION=CE STATION=DORSET MIC TYPE A SITE NO.1 ----------

SAMPLE NUMBER	CHLORIDE	KJELDAHL	MAGNESIUM	POTASSIUM	SODIUM	AMMONIUM	PHOSPHOR	MANGANESE
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
00029634	0.18	0.320	<T 0.020	<T 0.015	0.065	0.295	<T 0.003	0.002
00029644	0.25	0.480	<T 0.020	<T 0.005	0.100	0.385	0.018	0.002
00029651	0.21	0.130	<T 0.005	<T 0.015	0.140	<W 0.005	0.028	< 0.001
00029657	0.07	0.340	<T 0.020	<T 0.020	<T 0.020	0.220	0.011	0.001
00029666	0.11	0.970	UG 0.175	0.070	0.070	1.040	0.012	UG 0.013
00029676	0.17	0.680	0.060	0.035	0.030	0.735	<T 0.002	0.003
00029684	<T 0.05	0.270	0.030	<T 0.015	<T 0.010	0.265	<W 0.002	0.002
00029691	0.15	0.360	0.045	0.035	0.030	0.290	<T 0.004	0.003
00076002	0.16	0.280	0.070	<T 0.020	<T 0.025	0.290	<T 0.003	0.002
00076009	0.07	0.390	0.040	0.030	<T 0.010	0.405	<T 0.002	0.002
00076016	0.25	0.520	0.050	0.035	UG 0.150	0.445	<T 0.005	0.004
00076034	0.10	0.370	<T 0.025	<T 0.010	0.065	0.310	<W 0.002	0.001
00076040	0.10	0.170	<T 0.005	<W 0.005	<T 0.025	0.145	<T 0.003	< 0.001

SAMPLE NUMBER	NICKEL	ZINC	IRON	LEAD	VANADIUM	ALUMINUM	COPPER	ACIDITY GRAN
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L
00029634	0.0002	1DT 0.009	0.024	1DT 0.003	< 0.0004	0.044	0.0021	82.90
00029644	< 0.0002	0.009	0.018	1DT 0.004	< 0.0004	0.031	1DT 0.0011	79.00
00029651	0.0005	1DT 0.002	0.008	1DT 0.002	< 0.0004	1DT 0.011	< 0.0006	59.60
00029657	< 0.0002	< 0.001	0.012	1DT 0.001	< 0.0004	0.026	1DT 0.0008	72.20
00029666	< 0.0002	1DT 0.004	UG 0.098	0.004	< 0.0004	0.093	1DT 0.0006	69.80
00029676	< 0.0004	1DT 0.002	0.014	0.002	< 0.0004	0.033	0.0011	134.00
00029684	0.0002	< 0.002	0.014	1DT 0.002	< 0.0004	0.022	1DT 0.0004	62.80
00029691	< 0.0002	1DT 0.003	0.019	1DT 0.003	< 0.0004	1DT 0.046	0.0022	100.00
00076002	0.0006	1DT 0.004	0.033	1DT 0.009	< 0.0004	1DT 0.015	< 0.0003	118.00
00076009	0.0002	0.004	0.020	1DT 0.006	< 0.0004	0.021	0.0010	89.40
00076016	0.0003	1DT 0.003	0.028	0.005	< 0.0004	0.021	< 0.0003	87.50
00076034	< 0.0002	1DT 0.002	0.012	0.015	< 0.0004	0.009	1DT 0.0003	66.30
00076040	0.0003	< 0.001	0.006	0.003	< 0.0004	< 0.007	1DT 0.0002	56.90

ONTARIO MINISTRY OF THE ENVIRONMENT
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
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CUMULATIVE SAMPLING ANALYSIS RESULTS

---------- REGION=CE STATION=UXBRIDGE MIC TYPE A SITE NO.1 ----------

SAMPLE NUMBER	SUBMISSION NUMBER	LIS SAMPLE TYPE	PROJECT CODE	SUB PROJECT CODE	SAMPLE REMOVAL DATE	EXPOSURE DATE	SAMPLE END HR	SAMPLE START HR	PREC. TYPE	PREC. AT EXP	PREC. AT REM.	GAUGE TYPE	GAUGE DEPTH(MM)	EFFICIENCY %
00040583	AP02121	PR	02	01	FEB 5, 1987	DEC 30, 1986	1145	1045	2			2	43.0	75.64
00040585	AP02135	PR	02	01	FEB 23, 1987	FEB 5, 1987	1120	1145	2			2	7.1	88.50
00040588	AP02173	PR	02	01	MAR 24, 1987	FEB 23, 1987	0625	1120	3			2	28.9	61.60
00040622	AP02203	PR	02	01	APR 21, 1987	MAR 24, 1987	0635	0625	3			2	62.6	67.75
00040635	AP02219	PR	02	01	MAY 19, 1987	APR 21, 1987	1005	0635	1			3	33.0	56.28
00040638	AP02238	PR	02	01	JUN 16, 1987	MAY 19, 1987	1020	1005	1			3	96.0	33.17
00040695	AP02255	PR	02	01	JUL 14, 1987	JUN 16, 1987	1000	1020	1		1	3	102.0	82.92
00040873	AP02279	PR	02	01	AUG 11, 1987	JUL 14, 1987	0640	1000	1	1		3	73.0	85.40
00040944	AP02309	PR	02	01	SEP 8, 1987	AUG 11, 1987	0715	0640	1			3	23.0	50.22
00040957	AP02330	PR	02	01	OCT 6, 1987	SEP 8, 1987	0700	0715	1			0	77.0	73.36
00084001	AP02374	PR	02	01	NOV 3, 1987	OCT 6, 1987	0810	0700	1		1	9	31.5	148.72
00084014	AP02397	PR	02	01	DEC 2, 1987	NOV 3, 1987	0700	0810	2	1		2	27.3	323.57
00084026	AP02430	PR	02	01	DEC 30, 1987	DEC 2, 1987	1330	0700	3			9	53.5	4.61

SAMPLE NUMBER	FIELD COMMENTS	OFFICE COMMENTS	VOLUME ML	CONDUCT UMHO/CM		LAB.PH	ACIDITY.TFE		SULFATE MG/L		NITRATE MG/L		CALCIUM MG/L	
00040583		Z	1056	32.70		4.30	****		2.05		0.95		0.50	
00040585		HZ	204	34.10	D	4.73	****		3.60		1.36		1.52	
00040588	FJ		578	20.00		4.57	****		2.80		0.52	D	0.82	
00040622	AF		1377	21.00		4.52	****		3.35		0.59		0.96	
00040635	ACDF	HCM	603	100.00	B	7.63	****	UG	11.20		1.10	B	2.56	
00040638	A	N	1034	34.98		4.32	****		4.90		0.80		0.72	
00040695	G		4900	27.65		4.27	****		2.90		0.50		0.34	
00040873	A	H	2024	15.00	UG	5.56	****		2.85		0.40		0.70	
00040944	C		375	22.00		4.80	****		3.80		0.63		1.12	
00040957			1834	42.00		4.18	****		4.60		0.61		0.62	
00084001		N	1521	32.00		4.27	****		3.25		0.71		0.32	
00084014		NC	2868	8.00	B	4.69	****		1.30		0.28		0.16	
00084026		N	80	15.50		4.53	****		2.40	LG	0.21		0.44	

ONTARIO MINISTRY OF THE ENVIRONMENT
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
DATA LISTING
CUMULATIVE SAMPLING ANALYSIS RESULTS

REGION=CE STATION=UXBRIDGE MIC TYPE A SITE NO.1

SAMPLE NUMBER	CHLORIDE MG/L	KJELDAHL MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE MG/L
00040583	0.48	0.810	0.040	0.060	0.250	0.490	0.017	0.004
00040585	B 1.51	1.430	0.105	0.030	0.910	UG 1.130	0.026	0.007
00040588	0.54	0.240	D 0.040	<W 0.005	0.360	D 0.240	<T 0.009	0.002
00040622	0.23	0.610	0.075	0.045	0.080	0.415	0.025	0.004
00040635	B 1.30	UG 8.250	UG 0.425	U 2.230	B 1.780	U 6.150	U 0.940	0.003
00040638	0.22	1.220	0.115	0.095	0.050	1.050	D 0.026	0.006
00040695	0.10	0.470	0.050	<T 0.010	0.025	0.435	<T 0.002	0.003
00040873	0.15	1.130	0.095	D 0.135	0.055	0.495	0.094	0.005
00040944	<W 0.01	0.580	0.140	0.060	0.060	0.505	<T 0.007	0.007
00040957	0.12	0.470	0.070	0.040	0.035	0.440	<T 0.004	0.004
00084001	0.24	0.400	0.045	0.035	0.040	0.375	<T 0.003	0.003
00084014	0.14	0.230	<T 0.020	<T 0.020	0.050	0.170	<T 0.002	< 0.001
00084026	0.28	!IS ****	0.040	<T 0.005	0.095	0.065	!IS ****	****

SAMPLE NUMBER	NICKEL MG/L	ZINC MG/L	IRON MG/L	LEAD MG/L	VANADIUM MG/L	ALUMINUM MG/L	COPPER MG/L	ACIDITY GRAN UG/L
00040583	0.0003	0.010	0.043	1DT 0.003	0.0004	UG 0.142	0.0016	98.10
00040585	< 0.0002	0.022	0.074	1DT 0.007	0.0004	UG 0.072	0.0024	49.70
00040588	0.0007	1DT 0.005	0.025	1DT 0.004	< 0.0004	0.029	1DT 0.0011	48.50
00040622	< 0.0002	1DT 0.004	0.025	D 0.004	< 0.0004	0.028	0.0039	57.50
00040635	D 0.0030	B 0.095	U 0.698	1DT 0.014	D 0.0006	B 0.648	B 0.0165	30.30
00040638	0.0006	1DT 0.004	UG 0.093	0.006	< 0.0004	0.083	0.0016	73.70
00040695	< 0.0002	1DT 0.002	0.020	0.003	< 0.0004	0.021	D 0.0007	66.00
00040873	0.0019	1DT 0.003	0.015	0.002	< 0.0004	0.017	0.0005	26.80
00040944	0.0008	1DT 0.013	UG 0.134	0.028	< 0.0004	0.109	0.0011	40.00
00040957	< 0.0002	0.005	0.030	0.010	< 0.0004	0.024	0.0019	99.40
00084001	0.0004	0.014	0.021	0.021	< 0.0004	0.016	1DT 0.0006	93.70
00084014	< 0.0002	< 0.001	0.009	0.011	< 0.0004	< 0.007	1DT 0.0003	47.60
00084026	****	****	****	****	****	****	****	58.20

ONTARIO MINISTRY OF THE ENVIRONMENT
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
DATA LISTING
CUMULATIVE SAMPLING ANALYSIS RESULTS

---------- REGION=CE STATION=WILBERFORCE MIC TYPE A SITE NO.1 ----------

SAMPLE NUMBER	SUBMISSION NUMBER	LIS SAMPLE TYPE	PROJECT CODE	SUB PROJECT CODE	SAMPLE REMOVAL DATE	EXPOSURE DATE	SAMPLE END HR	SAMPLE START HR	PREC. TYPE	PREC. AT EXP	PREC. AT REM.	GAUGE TYPE	GAUGE DEPTH(MM)	EFFICIENCY %
00029637	AP02121	PR	02	01	JAN 28, 1987	DEC 30, 1986	1010	1020	2			2	23.0	80.35
00029643	AP02135	PR	02	01	FEB 24, 1987	JAN 28, 1987	0930	1010	2			2	53.0	44.51
00029650	AP02173	PR	02	01	MAR 24, 1987	FEB 24, 1987	1250	0930	3			2	18.0	89.49
00029660	AP02203	PR	02	01	APR 24, 1987	MAR 24, 1987	1230	1250	3			2	120.0	66.73
00029671	AP02226	PR	02	01	MAY 19, 1987	APR 24, 1987	1700	1230	1			3	49.0	92.71
00029680	AP02238	PR	02	01	JUN 16, 1987	MAY 19, 1987	1630	1700	1			3	83.0	17.11
00029683	AP02267	PR	02	01	JUL 14, 1987	JUN 16, 1987	0830	1630	1		1	3	122.0	90.83
00029693	AP02279	PR	02	01	AUG 11, 1987	JUL 14, 1987	0930	1115	1	1		3	25.0	91.17
00076004	AP02319	PR	02	01	SEP 10, 1987	AUG 11, 1987	1550	0930	1			3	43.0	77.86
00076007	AP02344	PR	02	01	OCT 6, 1987	SEP 10, 1987	1130	1550	1			3	60.0	58.16
00076015	AP02383	PR	02	01	NOV 3, 1987	OCT 6, 1987	1022	1130	3			3	91.0	70.54
00076036	AP02407	PR	02	01	DEC 1, 1987	NOV 3, 1987	1204	1022	3			2	124.0	60.68
00076042	AP02439	PR	02	01	DEC 29, 1987	DEC 1, 1987	1201	1204	3			2	91.0	66.00

SAMPLE NUMBER	FIELD COMMENTS	OFFICE COMMENTS	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	ACIDITY.TFE	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L
00029637			600	26.40	4.30	****	1.25	0.67	0.10
00029643		N	766	31.30	4.21	****	1.70	0.91	0.16
00029650			523	14.00	4.43	****	1.00	0.29	<T 0.04
00029660		Z	2600	18.00	4.39	****	1.75	0.34	<T 0.08
00029671		Z	1475	31.71	4.31	****	3.95	0.70	0.68
00029680	I		461	UG 63.79	3.84	****	6.65	0.83	0.16
00029683			3598	33.50	4.21	****	3.55	0.55	0.36
00029693			740	35.10	4.15	****	3.45	0.55	0.24
00076004		Z	1087	31.50	4.29	****	3.20	0.38	0.18
00076007	FI	Z	1133	32.00	4.25	****	3.60	0.52	0.34
00076015			2084	31.00	4.17	****	2.60	0.79	0.26
00076036			2443	17.00	4.51	****	1.50	0.36	0.14
00076042			1950	19.50	4.44	****	1.45	0.45	0.14

ONTARIO MINISTRY OF THE ENVIRONMENT
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
DATA LISTING
CUMULATIVE SAMPLING ANALYSIS RESULTS

REGION-CE STATION-WILBERFORCE MIC TYPE A SITE NO.1

SAMPLE NUMBER	CHLORIDE MG/L	KJELDAHL MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE MG/L
00029637	0.22	0.250	<T 0.010	<T 0.005	0.100	0.270	<T 0.006	0.001
00029643	0.24	0.530	<T 0.020	<T 0.015	0.095	0.450	0.012	0.002
00029650	0.21	0.100	<T 0.005	<W 0.005	0.150	<T 0.005	0.030	< 0.001
00029660	0.17	0.140	<T 0.010	<T 0.015	0.025	0.190	<T 0.005	0.001
00029671	0.08	0.590	0.105	0.040	0.040	0.615	<T 0.009	UG 0.009
00029680	0.17	0.610	0.025	0.025	0.030	0.635	<T 0.003	0.002
00029683	0.10	0.510	0.050	0.025	0.035	0.475	<W 0.002	0.004
00029693	0.10	0.350	0.030	<T 0.010	<T 0.010	0.310	<W 0.002	0.002
00076004	0.07	0.380	<T 0.025	<T 0.015	<T 0.020	0.380	<T 0.005	0.001
00076007	0.07	0.430	0.055	0.050	<T 0.020	0.405	<T 0.007	D 0.004
00076015	0.15	0.390	0.025	<T 0.015	<T 0.020	0.350	<T 0.002	0.002
00076036	0.12	0.230	<T 0.020	<T 0.005	0.080	0.200	<W 0.002	< 0.001
00076042	0.17	0.310	<T 0.010	<T 0.025	0.065	0.130	<T 0.002	0.001

SAMPLE NUMBER	NICKEL MG/L	ZINC MG/L	IRON MG/L	LEAD MG/L	VANADIUM MG/L	ALUMINUM MG/L	COPPER MG/L	ACIDITY GRAN UG/L
00029637	0.0003	1DT 0.007	0.019	1DT 0.003	< 0.0004	0.028	0.0019	73.30
00029643	< 0.0002	1DT 0.009	0.021	1DT 0.005	< 0.0004	0.030	0.0009	82.90
00029650	0.0003	1DT 0.010	0.010	1DT 0.002	< 0.0004	1DT 0.011	1DT 0.0005	57.40
00029660	< 0.0002	< 0.001	0.009	< 0.001	< 0.0004	0.009	0.0008	64.00
00029671	< 0.0002	1DT 0.004	0.066	0.003	< 0.0004	0.069	0.0009	69.40
00029680	< 0.0004	1DT 0.003	0.027	1DT 0.003	0.0004	0.135	1DT 0.0027	UG 171.00
00029683	0.0004	1DT 0.005	0.023	0.004	< 0.0004	0.053	0.0007	83.60
00029693	0.0002	1DT 0.001	0.005	1DT 0.004	< 0.0004	1DT 0.003	1DT 0.0006	97.00
00076004	< 0.0002	1DT 0.002	0.014	0.011	< 0.0004	0.045	< 0.0004	79.30
00076007	0.0002	0.005	0.026	0.005	0.0005	0.029	1DT 0.0010	86.30
00076015	0.0004	1DT 0.002	0.019	0.004	0.0004	0.017	1DT 0.0004	92.40
00076036	0.0010	< 0.001	0.013	UG 0.024	< 0.0004	0.008	0.0005	57.20
00076042	0.0003	< 0.002	0.022	0.012	< 0.0004	0.013	0.0010	63.50

PART IV

NORTHEASTERN REGION CUMULATIVE AMBIENT AIR CONCENTRATION RESULTS

ONTARIO MINISTRY OF THE ENVIRONMENT
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
DATA LISTING
CUMULATIVE SAMPLING ANALYSIS RESULTS

---------- REGION=NE STATION=AZURE LAKE MIC TYPE A SITE NO.1 ----------

SAMPLE NUMBER	SUBMISSION NUMBER	LIS SAMPLE TYPE	PROJECT CODE	SUB PROJECT CODE	SAMPLE REMOVAL DATE	EXPOSURE DATE	SAMPLE END HR	SAMPLE START HR	PREC. TYPE	PREC. AT EXP	PREC. AT REM.	GAUGE TYPE	GAUGE DEPTH(MM)	EFFICIENCY %
00036487	AP02104	PR	02	01	JAN 5, 1987	DEC 5, 1986	1000	1057	2			2	17.7	69.78
00036577	AP02121	PR	02	01	JAN 28, 1987	JAN 5, 1987	1102	1000	2		1	2	27.1	34.55
00036663	AP02167	PR	02	01	FEB 24, 1987	JAN 28, 1987	0930	1102	2			2	37.1	56.20
00036749	AP02179	PR	02	01	MAR 26, 1987	FEB 24, 1987	1131	0930	2			2	16.4	103.67
00036828	AP02203	PR	02	01	APR 23, 1987	MAR 26, 1987	1130	1131	1			2	44.9	74.02
00036881	AP02226	PR	02	01	MAY 21, 1987	APR 23, 1987	1020	1130	1			3	25.0	58.52
00036957	AP02251	PR	02	01	JUN 17, 1987	MAY 21, 1987	1018	1020	1			3	26.0	129.24
00037031	AP02279	PR	02	01	JUL 14, 1987	JUN 17, 1987	1100	1018	1		1	3	79.0	86.47
00037090	AP02295	PR	02	01	AUG 12, 1987	JUL 14, 1987	1048	1100	1			3	39.0	93.19
00037172	AP02319	PR	02	01	SEP 9, 1987	AUG 12, 1987	1255	1048	1			3	55.0	93.46
00081047	AP02348	PR	02	01	OCT 8, 1987	SEP 9, 1987	1110	1255	1			3	81.0	82.10
00081079	AP02392	PR	02	01	NOV 4, 1987	OCT 8, 1987	1145	1110	1			3	20.8	118.91
00081103	AP02413	PR	02	01	DEC 2, 1987	NOV 4, 1987	1430	1145	3			0	41.8	49.00
00081130	AP02430	PR	02	01	DEC 30, 1987	DEC 2, 1987	1055	1430	2			2	58.1	62.45

SAMPLE NUMBER	FIELD COMMENTS	OFFICE COMMENTS	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	ACIDITY.TFE	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L
00036487		Z	401	21.30	4.44	****	RVU 1.25	0.44	0.22
00036577		NZ	304	23.90	4.38	****	1.15	0.60	0.18
00036663			677	11.50	4.80	****	0.90	0.34	0.40
00036749		Z	552	20.30	4.30	****	1.45	0.43	0.13
00036828			1079	23.00	4.27	****	3.20	0.38	0.34
00036881	AD		475	21.78	5.15	****	4.00	0.66 UG	0.94
00036957		NC	1091	21.23	4.20	****	3.05	0.35	0.14
00037031	ACD		2218	20.70	4.40	****	2.15	0.30	0.12
00037090		HM	1180	16.50	4.45	****	1.75	0.27	0.32
00037172	C		1669	24.50	4.34	****	2.40	0.21 <T	0.06
00081047	C		2159	15.00	4.55	****	1.40	0.23	0.10
00081079			803	21.00	4.51	****	2.05	0.48	0.34
00081103	G	M	665	LG 7.00	4.80	****	0.70 LG	0.17 <T	0.04
00081130			1178	19.00	4.47	****	0.85	0.38 <T	0.04

ONTARIO MINISTRY OF THE ENVIRONMENT
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
DATA LISTING
CUMULATIVE SAMPLING ANALYSIS RESULTS

---------- REGION=NE STATION=AZURE LAKE MIC TYPE A SITE NO.1 ----------

SAMPLE NUMBER	CHLORIDE MG/L	KJELDAHL MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE MG/L
00036487	0.20	0.525	<T 0.010	<T 0.005	0.095	0.445	<T 0.023	< 0.001
00036577	0.32	0.120	<T 0.010	0.070	0.145	0.130	0.018	< 0.001
00036663	0.15	0.220	<T 0.010	<W 0.005	0.085	0.075	<T 0.004	0.007
00036749	<T 0.04	0.130	0.035	<T 0.005	0.025	0.110	<T 0.004	0.001
00036828	0.08	0.390	<T 0.015	<T 0.010	0.045	0.320	<T 0.003	0.002
00036881	<T 0.04	1.000	UG 0.190	0.130	UG 0.100	0.740	0.042	UG 0.018
00036957	<W 0.01	0.410	<T 0.010	0.045	0.040	0.365	<W 0.002	0.002
00037031	0.08	0.340	0.030	0.035	<T 0.015	0.285	<W 0.002	0.002
00037090	0.11	0.250	0.040	<T 0.020	0.035	0.200	<W 0.002	0.002
00037172	<W 0.01	0.180	<T 0.010	<W 0.005	<T 0.005	0.160	<W 0.002	< 0.001
00081047	<W 0.01	0.170	<T 0.015	<T 0.010	<T 0.020	0.135	<T 0.003	< 0.001
00081079	0.11	0.320	0.045	<T 0.020	<T 0.010	0.265	<T 0.002	0.003
00081103	0.08	0.100	<W 0.005	<W 0.005	<T 0.020	0.070	<W 0.002	< 0.001
00081130	0.06	<T 0.080	<W 0.005	<W 0.005	<T 0.020	0.045	<W 0.002	< 0.001

SAMPLE NUMBER	NICKEL MG/L	ZINC MG/L	IRON MG/L	LEAD MG/L	VANADIUM MG/L	ALUMINUM MG/L	COPPER MG/L	ACIDITY GRAN UG/L
00036487	< 0.0002	1DT 0.003	0.032	1DT 0.004	< 0.0004	1DT 0.031	0.0027	66.70
00036577	0.0005	1DT 0.006	0.050	1DT 0.003	< 0.0004	0.063	0.0034	67.50
00036663	< 0.0002	< 0.002	0.026	0.004	0.0004	0.040	1DT 0.0009	38.10
00036749	< 0.0002	1DT 0.004	0.006	1DT 0.002	< 0.0004	0.029	1DT 0.0037	66.60
00036828	< 0.0002	< 0.002	0.013	1DT 0.002	< 0.0004	0.021	0.0019	77.40
00036881	0.0004	1DT 0.010	UG 0.094	0.003	< 0.0004	UG 0.099	0.0018	28.60
00036957	0.0002	1DT 0.005	0.012	1DT 0.001	< 0.0004	0.023	D 0.0038	73.80
00037031	0.0002	1DT 0.009	0.010	1DT 0.001	< 0.0004	0.031	0.0004	62.20
00037090	0.0005	1DT 0.007	0.020	1DT 0.003	< 0.0004	1DT 0.019	1DT 0.0007	59.60
00037172	< 0.0002	1DT 0.001	0.008	0.010	< 0.0004	0.027	1DT 0.0006	66.30
00081047	< 0.0002	0.005	0.011	D 0.017	D 0.0007	0.019	0.0022	48.70
00081079	< 0.0002	1DT 0.034	0.020	1DT 0.010	< 0.0004	0.016	1DT 0.0025	62.40
00081103	< 0.0002	< 0.003	0.012	0.014	< 0.0004	< 0.013	1DT 0.0004	37.90
00081130	< 0.0002	< 0.002	0.010	0.006	< 0.0004	1DT 0.007	1DT 0.0024	54.70

ONTARIO MINISTRY OF THE ENVIRONMENT
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
DATA LISTING
CUMULATIVE SAMPLING ANALYSIS RESULTS

---------- REGION=NE STATION BEAR ISLAND MIC TYPE A SITE NO.1 ----------

SAMPLE NUMBER	SUBMISSION NUMBER	LIS SAMPLE TYPE	PROJECT CODE	SUB PROJECT CODE	SAMPLE REMOVAL DATE	EXPOSURE DATE	SAMPLE END HR	SAMPLE START HR	PREC. TYPE	PREC. AT EXP	PREC. AT REM.	GAUGE TYPE	GAUGE DEPTH(MM)	EFFICIENCY %
00036578	AP02121	PR	02	01	JAN 28, 1987	DEC 30, 1986	0907	1300	2			2	14.9	.
00036664	AP02167	PR	02	01	FEB 25, 1987	JAN 28, 1987	1025	0907	2			2	107.1	21.14
00036750	AP02179	PR	02	01	MAR 25, 1987	FEB 25, 1987	0920	1025	2			2	27.0	59.66
00036882	AP02226	PR	02	01	APR 21, 1987	MAR 25, 1987	1405	0920	3			9	41.9	54.18
00036883	AP02226	PR	02	01	MAY 19, 1987	APR 21, 1987	1440	1405	1			2	55.5	80.14
00036958	AP02251	PR	02	01	JUN 17, 1987	MAY 19, 1987	1130	1440	1			3	68.0	85.29
00037032	AP02279	PR	02	01	JUL 15, 1987	JUN 17, 1987	1000	1130	1			3	68.0	104.45
00037091	AP02295	PR	02	01	AUG 11, 1987	JUL 15, 1987	1015	1000	1			3	94.0	50.20
00037173	AP02319	PR	02	01	SEP 8, 1987	AUG 11, 1987	1538	1015	1			9	52.9	66.96
00081048	AP02348	PR	02	01	OCT 6, 1987	SEP 8, 1987	1549	1538	1			9	84.6	79.73
00081080	AP02392	PR	02	01	NOV 3, 1987	OCT 6, 1987	0957	1549	1			3	22.7	118.72
00081154	AP02461	PR	02	01	DEC 1, 1987	NOV 3, 1987	0937	0957	2		1	2	68.5	22.71

SAMPLE NUMBER	FIELD COMMENTS	OFFICE COMMENTS	VOLUME ML	CONDUCT UMHO/CM		LAB.PH		ACIDITY.TFE MG/L		SULFATE MG/L		NITRATE MG/L		CALCIUM MG/L	
			****	****		****		****		****		****		****	
00036578	GE			19.50		4.42		****		1.05		0.50	<T	0.08	
00036664	F		735	9.71	UG	4.79		****		0.55	LG	0.14		0.12	
00036750			523	52.16		4.03		****	D	6.05		0.85		0.64	
00036882	P		737	35.54		4.35		****		4.15		0.45		0.60	
00036883	PCD		1444	33.35		4.13		****		3.35		0.41		0.14	
00036958	D		1883	27.30		4.15		****		2.70		0.35		0.10	
00037032	ABCD	M	2306	13.00	LG	4.65		****	LG	1.65		0.22	<T	0.08	
00037091	PA		1532	34.90		4.16		****		3.80		0.35		0.18	
00037173	PB		1150	28.00		4.35		****		3.35		0.37		0.62	
00081048	PB		2190	25.00		4.47		****		2.85		0.58		0.54	
00081080	A		875	3.00	LG	5.17		****	B	0.40	LG	0.10	<W	0.02	
00081154	G	CM	505												

ONTARIO MINISTRY OF THE ENVIRONMENT
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
DATA LISTING
CUMULATIVE SAMPLING ANALYSIS RESULTS

---------- REGION=NE STATION=BEAR ISLAND MIC TYPE A SITE NO.1 ----------

SAMPLE NUMBER	CHLORIDE MG/L	KJELDAHL MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE MG/L
00036578	****	****	****	****	****	****	****	****
00036664	0.15	0.260	<T 0.010	<T 0.015	0.070	0.165	<T 0.008	0.001
00036750	0.06	<T 0.040	<T 0.010	<W 0.005	0.060	<T 0.005	0.015	< 0.001
00036882	0.16	D 0.730	0.055	0.050	0.145	0.615	0.016	0.004
00036883	<T 0.05	0.760	0.115	0.095	0.105	0.445	0.042	0.013
00036958	<T 0.05	0.370	0.020	0.065	0.070	0.375	<T 0.002	0.001
00037032	<T 0.05	0.260	0.025	0.045	<T 0.010	0.215	<W 0.002	0.002
00037091	0.10	0.320	<T 0.015	0.050	0.045	0.285	<T 0.008	0.001
00037173	<T 0.03	0.220	0.035	0.090	<T 0.015	0.215	<T 0.002	0.001
00081048	<T 0.05	0.230	UG 0.160	UG 0.375	0.075	<T 0.020	0.114	0.006
00081080	0.12	0.380	0.075	0.040	0.115	0.320	<T 0.006	0.004
00081154	<T 0.03	<T 0.090	<W 0.005	<W 0.005	<W 0.005	0.080	<W 0.002	< 0.001

SAMPLE NUMBER	NICKEL MG/L	ZINC MG/L	IRON MG/L	LEAD MG/L	VANADIUM MG/L	ALUMINUM MG/L	COPPER MG/L	ACIDITY GRAN UG/L
00036578	****	****	****	****	****	****	****	****
00036664	0.0008	< 0.002	0.018	1DT 0.003	0.0004	1DT 0.038	1DT 0.0061	60.80
00036750	< 0.0002	< 0.003	0.012	< 0.003	< 0.0004	0.026	1DT 0.0013	LG 34.60
00036882	0.0007	1DT 0.006	0.030	0.006	< 0.0004	0.053	1DT 0.0049	119.00
00036883	0.0011	1DT 0.002	UG 0.061	0.002	< 0.0004	0.073	0.0018	67.00
00036958	0.0005	1DT 0.005	0.013	1DT 0.001	< 0.0004	0.020	0.0019	85.10
00037032	0.0004	1DT 0.015	D 0.008	1DT 0.001	< 0.0004	0.029	0.0009	90.90
00037091	0.0006	1DT 0.006	0.014	< 0.002	< 0.0004	1DT 0.016	1DT 0.0004	LG 43.40
00037173	0.0027	1DT 0.004	0.020	0.005	< 0.0004	1DT 0.028	1DT 0.0092	94.10
00081048	< 0.0002	0.008	0.012	1DT 0.001	< 0.0004	0.015	1DT 0.0007	79.30
00081080	< 0.0002	1DT 0.010	0.028	0.010	< 0.0004	0.034	1DT 0.0016	67.80
00081154	0.0004	< 0.003	1DT 0.010	1DT 0.014	< 0.0004	< 0.015	< 0.0006	LG 28.50

ONTARIO MINISTRY OF THE ENVIRONMENT
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
DATA LISTING
CUMULATIVE SAMPLING ANALYSIS RESULTS

---------- REGION=NE STATION=GOWGANDA MIC TYPE A SITE NO.1 ----------

SAMPLE NUMBER	SUBMISSION NUMBER	LIS SAMPLE TYPE	PROJECT CODE	SUB PROJECT CODE	SAMPLE REMOVAL DATE	EXPOSURE DATE	SAMPLE END HR	SAMPLE START HR	PREC. TYPE	PREC. AT EXP	PREC. AT REM.	GAUGE TYPE	GAUGE DEPTH(MM)	EFFICIENCY %
00036566	AP02121	PR	02	01	JAN 27, 1987	DEC 30, 1986	1010	1100	2	1	1	2	14.0	22.00
00036652	AP02167	PR	02	01	FEB 24, 1987	JAN 27, 1987	1430	1010	2	1		2	25.0	28.83
00036738	AP02179	PR	02	01	MAR 24, 1987	FEB 24, 1987	1015	1430	2			2	8.6	70.91
00036817	AP02203	PR	02	01	APR 21, 1987	MAR 24, 1987	0900	1015	1			2	31.9	71.06
00036870	AP02226	PR	02	01	MAY 12, 1987	APR 21, 1987	1645	0900	1	1		2	26.3	78.35
00036946	AP02251	PR	02	01	JUN 16, 1987	MAY 12, 1987	1120	1645	1			3	66.9	86.78
00037020	AP02279	PR	02	01	JUL 14, 1987	JUN 16, 1987	0910	1120	1		1	3	49.0	87.31
00037079	AP02295	PR	02	01	AUG 11, 1987	JUL 14, 1987	1130	0910	1			3	80.0	51.86
00037153	AP02319	PR	02	01	SEP 8, 1987	AUG 11, 1987	1217	1130	1			3	21.0	99.88
00081035	AP02348	PR	02	01	OCT 6, 1987	SEP 8, 1987	0950	1217	1			3	145.0	86.49
00081069	AP02392	PR	02	01	NOV 3, 1987	OCT 6, 1987	1030	0950	1			3	23.4	115.30
00081093	AP02413	PR	02	01	DEC 1, 1987	NOV 3, 1987	1000	1030	3			3	64.3	13.94
00081119	AP02430	PR	02	01	DEC 29, 1987	DEC 1, 1987	1010	1030	3			2	57.4	50.22

SAMPLE NUMBER	FIELD COMMENTS	OFFICE COMMENTS	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	ACIDITY.TFE	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L
00036566		N	100	41.50	4.20	****	2.85	1.11	0.66
00036652		N	234	24.00	4.33	****	1.65	0.54 <T	0.08
00036738		C	198	22.50	4.56	****	1.00	0.26 <T	0.08
00036817		C	736	UG 54.00	3.83	****	5.75	0.94	0.18
00036870		HZ	669	20.38	4.52	****	3.10	0.33	0.60
00036946		HMZ	1885	20.22	4.36	****	1.95	0.24	0.18
00037020	AD		1389	19.50	4.55	****	2.25	0.35	0.10
00037079			1347	15.50	4.64	****	1.50	0.20 <T	0.06
00037153			681	35.00	4.20	****	3.25	0.42	0.16
00081035			4072	27.50	4.31	****	2.70	0.28 <T	0.08
00081069			876	23.00	4.41	****	2.25	0.44	0.32
00081093	G	H	291	LG 8.00	4.88	****	0.95 LG	0.17	0.26
00081119	G	M	936	17.00	4.46	****	1.10	0.34 <T	0.02

ONTARIO MINISTRY OF THE ENVIRONMENT
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
DATA LISTING
CUMULATIVE SAMPLING ANALYSIS RESULTS

---------- REGION=NE STATION-GOWGANDA MIC TYPE A SITE NO.1 ----------

SAMPLE NUMBER	CHLORIDE	KJELDAHL	MAGNESIUM	POTASSIUM	SODIUM	AMMONIUM	PHOSPHOR	MANGANESE
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
00036566	UG 0.88	!IS ****	0.045	0.060	UG 0.720	0.305	!IS ****	****
00036652	0.24	0.460	<T 0.005	<T 0.005	0.170	0.210	0.025	0.002
00036738	0.10	0.160	<T 0.020	<T 0.010	0.085	0.080	<T 0.002	0.002
00036817	0.20	0.690	0.030	0.040	0.055	0.570	0.010	0.004
00036870	<W 0.01	0.480	0.100	0.055	0.070	0.385	0.015	UG 0.009
00036946	<T 0.05	0.380	0.035	0.070	<T 0.020	0.285	<T 0.008	D 0.005
00037020	0.10	0.510	0.030	0.045	0.025	0.435	D 0.017	0.002
00037079	<W 0.01	0.250	<W 0.005	0.045	<T 0.025	0.210	<T 0.004	0.002
00037153	0.12	0.290	0.025	<T 0.015	0.025	0.255	0.011	0.001
00081035	<T 0.03	0.230	<T 0.010	<T 0.015	<T 0.020	0.205	<T 0.002	< 0.001
00081069	0.09	0.240	0.035	<T 0.015	0.030	0.190	<T 0.003	0.002
00081093	0.30	0.350	0.050	D 0.035	0.145	0.115	<T 0.004	0.001
00081119	0.09	0.150	<T 0.005	<W 0.005	<T 0.020	0.050	<W 0.002	< 0.001

SAMPLE NUMBER	NICKEL	ZINC	IRON	LEAD	VANADIUM	ALUMINUM	COPPER	ACIDITY GRAN
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L
00036566	****	****	****	****	****	****	****	102.00
00036652	< 0.0002	1DT 0.012	0.038	1DT 0.004	0.0004	1DT 0.047	1DT 0.0044	67.10
00036738	0.0007	1DT 0.011	0.066	1DT 0.004	< 0.0004	0.069	0.0032	49.20
00036817	0.0005	1DT 0.009	0.021	1DT 0.006	0.0004	0.045	0.0035	UG 170.00
00036870	0.0008	1DT 0.005	0.053	0.002	< 0.0004	0.067	1DT 0.0005	49.20
00036946	0.0004	1DT 0.002	0.018	< 0.002	< 0.0004	0.030	0.0008	59.70
00037020	0.0002	1DT 0.002	0.015	1DT 0.002	< 0.0004	0.024	1DT 0.0008	52.10
00037079	D 0.0002	1DT 0.004	0.005	0.002	< 0.0004	1DT 0.013	< 0.0003	44.70
00037153	< 0.0002	1DT 0.010	0.009	0.012	< 0.0004	1DT 0.034	< 0.0005	89.90
00081035	0.0002	1DT 0.001	0.008	1DT 0.003	< 0.0004	1DT 0.006	0.0007	74.80
00081069	< 0.0002	< 0.002	D 0.013	0.005	< 0.0004	0.020	1DT 0.0007	72.60
00081093	0.0002	1DT 0.006	0.036	1DT 0.031	D 0.0006	0.026	1DT 0.0016	36.70
00081119	< 0.0002	< 0.002	0.007	0.013	< 0.0004	1DT 0.010	1DT 0.0005	60.50

ONTARIO MINISTRY OF THE ENVIRONMENT
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
DATA LISTING
CUMULATIVE SAMPLING ANALYSIS RESULTS

---------- REGION=NE STATION=KILLARNEY MIC TYPE A SITE NO.1 ----------

SAMPLE NUMBER	SUBMISSION NUMBER	LIS SAMPLE TYPE	PROJECT CODE	SUB PROJECT CODE	SAMPLE REMOVAL DATE	EXPOSURE DATE	SAMPLE END HR	SAMPLE START HR	PREC. TYPE	PREC. AT EXP	PREC. AT REM.	GAUGE TYPE	GAUGE DEPTH(MM)	EFFICIENCY %
00036484	AP02104	PR	02	01	JAN 4, 1987	DEC 2, 1986	1044	1315	2		1	2	84.0	48.22
00036574	AP02121	PR	02	01	JAN 30, 1987	JAN 4, 1987	1330	1044	2	1	1	9	41.9	36.61
00036660	AP02167	PR	02	01	FEB 24, 1987	JAN 30, 1987	1445	1330	2	1		2	19.9	64.23
00036746	AP02179	PR	02	01	MAR 24, 1987	FEB 24, 1987	1126	1445	2			2	28.0	53.90
00036825	AP02203	PR	02	01	APR 21, 1987	MAR 24, 1987	1320	1126	1			2	57.3	0.65
00036878	AP02226	PR	02	01	MAY 19, 1987	APR 21, 1987	1425	1320	1	1		3	35.0	92.58
00036954	AP02251	PR	02	01	JUN 16, 1987	MAY 19, 1987	0835	1425	1			3	65.0	80.27
00037028	AP02279	PR	02	01	JUL 14, 1987	JUN 16, 1987	1035	1310	1			3	40.0	97.33
00037087	AP02295	PR	02	01	AUG 11, 1987	JUL 14, 1987	1850	1035	1			3	45.0	96.71
00037169	AP02319	PR	02	01	SEP 8, 1987	AUG 11, 1987	1020	1850	1			3	50.0	87.16
00081043	AP02348	PR	02	01	OCT 6, 1987	SEP 8, 1987	1130	1020	1			3	62.0	47.79
00081076	AP02392	PR	02	01	NOV 3, 1987	OCT 6, 1987	1710	1130	1			9	63.3	74.49
00081100	AP02413	PR	02	01	DEC 2, 1987	NOV 3, 1987	0945	1710	3			0	65.2	47.85
00081125	AP02430	PR	02	01	DEC 29, 1987	DEC 2, 1987	1107	0945	3			2	91.0	55.14

SAMPLE NUMBER	FIELD COMMENTS	OFFICE COMMENTS	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	ACIDITY.TFE	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L
00036484		NZ	1315	43.20	4.12	****	3.15	1.00	<T 0.08
00036574	P	Z	498	35.00	4.21	****	1.80	0.92	0.30
00036660		Z	415	D 45.00	4.09	****	2.50	1.30	0.36
00036746	D		490	LG 8.35 UG	4.84	****	LG 0.45	LG 0.09	<T 0.02
00036825	G		12	!IS ****	4.38	****	!IS ****	!IS ****	!IS ****
00036878			1052	32.10	4.51	****	4.95	0.81	0.78
00036954	A		1694	45.99	3.99	****	4.60	0.71	0.24
00037028			1264	32.90	4.16	****	3.55	0.50	0.36
00037087			1413	27.00	4.25	****	3.20	0.44	0.24
00037169	C		1415	31.00	4.23	****	2.95	0.30	0.14
00081043	G		962	31.00	4.36	****	3.40	0.48	0.34
00081076			1531	36.00	4.23	****	3.10	0.70	0.28
00081100	A	N	1013	21.00	4.33	****	1.60	0.47	<T 0.10
00081125	G		1629	20.50	4.40	****	1.35	0.51	<T 0.06

ONTARIO MINISTRY OF THE ENVIRONMENT
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
DATA LISTING
CUMULATIVE SAMPLING ANALYSIS RESULTS

---------- REGION=NE STATION=KILLARNEY MIC TYPE A SITE NO.1 ----------

SAMPLE NUMBER	CHLORIDE MG/L	KJELDAHL MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE MG/L
00036484	0.18	0.780	<T 0.015	<T 0.005	0.035	0.670	<W 0.002	< 0.001
00036574	0.29	0.330	0.035	<T 0.020	0.110	0.280	<W 0.002	0.004
00036660	0.35	D 1.130	0.050	<T 0.005	0.140	0.685	0.011	0.003
00036746	0.06	<T 0.080	<T 0.005	<W 0.005	0.040	<W 0.005	<T 0.008	< 0.001
00036825	!IS ****	!IS ****	!IS ****	!IS ****	!IS ****	!IS ****	!IS ****	****
00036878	0.12	1.050	0.130	0.060	0.110	0.970	0.016	0.012
00036954	0.08	0.700	0.040	0.060	0.035	0.645	<T 0.004	0.002
00037028	0.10	0.480	0.060	0.040	<T 0.015	0.365	<T 0.002	0.002
00037087	<W 0.01	0.430	0.040	<T 0.020	0.025	0.405	<T 0.002	0.002
00037169	0.07	0.200	<T 0.025	<T 0.015	<T 0.025	LG 0.125	<T 0.006	0.001
00081043	0.25	0.900	0.055	UG 0.230	UG 0.205	0.500	0.013	0.003
00081076	0.23	0.350	0.040	0.035	0.080	0.285	<T 0.008	0.002
00081100	0.13	0.230	<T 0.015	<W 0.005	0.070	0.175	<T 0.005	< 0.001
00081125	0.14	0.410	<T 0.005	<T 0.010	0.025	0.285	<T 0.002	< 0.001

SAMPLE NUMBER	NICKEL MG/L	ZINC MG/L	IRON MG/L	LEAD MG/L	VANADIUM MG/L	ALUMINUM MG/L	COPPER MG/L	ACIDITY GRAN UG/L
00036484	< 0.0002	1DT 0.005	0.014	1DT 0.006	0.0005	0.022	0.0011	114.00
00036574	0.0007	1DT 0.009	0.034	1DT 0.005	0.0004	0.072	0.0041	87.20
00036660	< 0.0002	1DT 0.013	D 0.040	0.006	0.0004	1DT 0.046	1DT 0.0025	D 119.00
00036746	< 0.0002	< 0.003	1DT 0.023	< 0.003	< 0.0004	1DT 0.017	D 0.0011	LG 33.60
00036825	****	****	****	****	****	****	****	91.40
00036878	0.0003	1DT 0.006	UG 0.071	0.002	< 0.0004	0.083	0.0009	55.60
00036954	< 0.0002	0.008	0.018	1DT 0.001	< 0.0004	0.028	0.0016	UG 117.00
00037028	0.0002	0.017	0.025	1DT 0.002	< 0.0004	1DT 0.029	1DT 0.0005	95.50
00037087	0.0005	1DT 0.011	0.018	1DT 0.006	< 0.0004	1DT 0.017	1DT 0.0004	84.30
00037169	0.0007	1DT 0.005	0.018	0.011	< 0.0004	0.031	1DT 0.0026	83.70
00081043	0.0012	0.016	0.018	1DT 0.002	< 0.0004	1DT 0.014	1DT 0.0030	73.50
00081076	< 0.0002	1DT 0.003	0.014	0.008	< 0.0004	0.012	1DT 0.0010	99.10
00081100	0.0004	< 0.002	0.011	1DT 0.004	< 0.0004	1DT 0.009	0.0034	69.00
00081125	< 0.0002	< 0.002	0.012	0.010	< 0.0004	< 0.008	0.0003	65.10

ONTARIO MINISTRY OF THE ENVIRONMENT
AP10S - ACIDIC PRECIPITATION IN ONTARIO STUDY
DATA LISTING
CUMULATIVE SAMPLING ANALYSIS RESULTS

---------- REGION=NE STATION=MATTAWA MIC TYPE A SITE NO.1 ----------

SAMPLE NUMBER	SUBMISSION NUMBER	LIS SAMPLE TYPE	PROJECT CODE	SUB PROJECT CODE	SAMPLE REMOVAL DATE	EXPOSURE DATE	SAMPLE END HR	SAMPLE START HR	PREC. TYPE	PREC. AT EXP	PREC. AT REM.	GAUGE TYPE	GAUGE DEPTH(MM)	EFFICIENCY %
00036571	AP02121	PR	02	01	JAN 27, 1987	DEC 30, 1986	1415	1430	2			2	16.4	71.18
00036657	AP02167	PR	02	01	FEB 26, 1987	JAN 27, 1987	1350	1415	2	1		9	61.1	53.18
00036743	AP02179	PR	02	01	MAR 24, 1987	FEB 26, 1987	1315	1350	2			2	50.7	21.44
00036822	AP02203	PR	02	01	APR 21, 1987	MAR 24, 1987	0945	1315	1			2	46.7	84.09
00036875	AP02226	PR	02	01	MAY 19, 1987	APR 21, 1987	1100	0945	1			3	47.7	88.07
00036951	AP02251	PR	02	01	JUN 16, 1987	MAY 19, 1987	1354	1100	1			3	73.0	94.97
00037025	AP02279	PR	02	01	JUL 15, 1987	JUN 16, 1987	1230	1354	1			3	50.0	88.77
00037084	AP02295	PR	02	01	AUG 13, 1987	JUL 15, 1987	1450	1230	1			3	51.0	93.06
00037158	AP02319	PR	02	01	SEP 8, 1987	AUG 13, 1987	1850	1450	1			3	98.0	86.55
00081040	AP02348	PR	02	01	OCT 6, 1987	SEP 8, 1987	0910	1850	1			3	51.0	102.61
00081073	AP02392	PR	02	01	NOV 3, 1987	OCT 6, 1987	1005	0910	1		1	3	45.9	151.85
00081097	AP02413	PR	02	01	DEC 1, 1987	NOV 3, 1987	1020	1005	3			3	55.7	74.76
00081123	AP02430	PR	02	01	DEC 30, 1987	DEC 1, 1987	1530	1020	2			2	62.5	71.85

SAMPLE NUMBER	FIELD COMMENTS	OFFICE COMMENTS	VOLUME ML	CONDUCT UMHO/CM		LAB.PH		ACIDITY.TFE		SULFATE MG/L		NITRATE MG/L		CALCIUM MG/L	
36571000			379	21.40		4.53		****		1.25		0.56		0.30	
00036657	P	Z	1055	20.50		4.39		****		0.95		0.56		<T	0.06
00036743		NZ	353	8.87	LG	4.68		****		0.60	LG	0.13		<T	0.04
00036822			1275	25.00		4.19		****		2.45		0.47		<T	0.08
00036875	P		1364	37.83		4.30		****	UG	6.00		0.73			0.82
00036951	CD	H	2251	30.83		4.25		****		3.70		0.50			0.16
00037025		C	1441	12.20	LG	4.41		****		2.15		0.40			0.28
00037084			1541	22.00		4.34		****		2.50		0.30			0.14
00037158		Z	2754	33.00		4.23		****		3.30		0.36			0.10
00081040			1699	15.50	LG	4.57	D	****	B	1.45	LG	0.20			0.10
00081073		N	2263	27.00		4.40		****		2.30		0.62			0.22
00081097			1352	18.00		4.38		****		1.55		0.44		<T	0.08
00081123			1458	22.50		4.34		****		1.30		0.51		<T	0.06

ONTARIO MINISTRY OF THE ENVIRONMENT
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
DATA LISTING
CUMULATIVE SAMPLING ANALYSIS RESULTS

---------- REGION=NE STATION=MATTAWA MIC TYPE A SITE NO.1 ----------

SAMPLE NUMBER	CHLORIDE MG/L	KJELDAHL MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE MG/L
00036571	0.36	0.210	0.025	0.030	0.275	0.115	0.031	0.005
00036657	0.17	0.310	<T 0.005	<T 0.015	0.090	0.220	<T 0.008	0.001
00036743	0.17	<T 0.070	<T 0.005	<T 0.015	0.115	<T 0.020	0.025	0.001
00036822	0.19	0.190	<T 0.010	0.025	0.055	0.220	<T 0.003	0.002
00036875	0.09	0.970	0.150	0.105	0.085	0.845	0.022	0.015
00036951	<T 0.04	1.140	0.045	B 0.250	<T 0.020	0.745	D 0.069	0.002
00037025	0.10	0.360	0.050	0.035	0.025	0.235	<T 0.009	0.003
00037084	0.19	0.270	<T 0.020	<T 0.020	0.025	0.245	<W 0.002	0.002
00037158	0.12	0.330	<T 0.020	<T 0.020	0.045	0.295	<T 0.006	0.001
00081040	<W 0.01	0.160	<T 0.015	<T 0.010	<T 0.005	0.130	<T 0.003	0.001
00081073	0.16	0.390	0.035	0.035	0.120	0.350	<T 0.006	0.002
00081097	0.13	0.260	<T 0.020	<W 0.005	0.065	0.215	<T 0.003	0.002
00081123	0.13	0.150	<T 0.005	<T 0.015	0.040	0.110	<W 0.002	0.001

SAMPLE NUMBER	NICKEL MG/L	ZINC MG/L	IRON MG/L	LEAD MG/L	VANADIUM MG/L	ALUMINUM MG/L	COPPER MG/L	ACIDITY GRAN UG/L
36571000	0.0010	1DT 0.007	0.057	< 0.004	< 0.0004	0.077	UG 0.0272	57.10
00036657	< 0.0002	1DT 0.001	0.018	0.003	0.0004	1DT 0.015	1DT 0.0023	62.80
00036743	< 0.0002	1DT 0.006	0.038	1DT 0.002	< 0.0004	0.048	1DT 0.0013	44.90
00036822	0.0004	< 0.002	0.015	1DT 0.001	< 0.0004	0.020	0.0016	82.50
00036875	0.0003	1DT 0.006	UG 0.103	0.004	< 0.0004	0.079	0.0007	76.50
00036951	0.0002	1DT 0.006	0.021	1DT 0.002	< 0.0004	0.026	0.0012	76.60
00037025	0.0004	1DT 0.006	0.025	1DT 0.002	< 0.0004	1DT 0.012	0.0005	60.80
00037084	0.0007	0.010	0.029	1DT 0.002	< 0.0004	1DT 0.020	1DT 0.0019	69.60
00037158	< 0.0002	1DT 0.001	0.021	0.004	< 0.0004	0.028	1DT 0.0010	84.90
00081040	< 0.0002	0.005	0.019	1DT 0.001	< 0.0004	D 0.036	1DT 0.0012	LG 49.50
00081073	< 0.0002	1DT 0.001	0.024	0.002	< 0.0004	0.017	1DT 0.0006	75.20
00081097	0.0004	1DT 0.004	D 0.026	1DT 0.016	< 0.0004	0.013	1DT 0.0021	65.80
00081123	< 0.0002	< 0.002	0.033	0.004	< 0.0004	1DT 0.008	0.0012	71.70

ONTARIO MINISTRY OF THE ENVIRONMENT
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
DATA LISTING
CUMULATIVE SAMPLING ANALYSIS RESULTS

---------- REGION=NE STATION=MCKELLAR M1C TYPE A SITE NO.1 ----------

SAMPLE NUMBER	SUBMISSION NUMBER	LIS SAMPLE TYPE	PROJECT CODE	SUB PROJECT CODE	SAMPLE REMOVAL DATE	EXPOSURE DATE	SAMPLE END HR	SAMPLE START HR	PREC. TYPE	PREC. AT EXP	PREC. AT REM.	GAUGE TYPE	GAUGE DEPTH(MM)	EFFICIENCY %
00036573	AP02121	PR	02	01	JAN 27, 1986	DEC 29, 1986	0815	0800	2			2	4.0	190.19
00036659	AP02167	PR	02	01	FEB 24, 1987	JAN 27, 1987	0820	0815	2			2	81.0	24.07
00036745	AP02179	PR	02	01	MAR 24, 1987	FEB 24, 1987	0830	0820	2			2	26.0	89.32
00036824	AP02203	PR	02	01	APR 21, 1987	MAR 24, 1987	0820	0830	1			3	60.2	78.07
00036877	AP02226	PR	02	01	MAY 19, 1987	APR 21, 1987	0815	0820	1			3	29.0	107.59
00036953	AP02251	PR	02	01	JUN 16, 1987	MAY 19, 1987	0830	0815	1			3	117.0	49.65
00037027	AP02279	PR	02	01	JUL 14, 1987	JUN 16, 1987	0830	0830	1			3	10.0	197.74
00037086	AP02295	PR	02	01	AUG 11, 1987	JUL 14, 1987	0820	0830	1			3	21.0	185.68
00037160	AP02319	PR	02	01	SEP 8, 1987	AUG 11, 1987	0830	0820	1		1	3	134.0	72.22
00081042	AP02348	PR	02	01	OCT 6, 1987	SEP 8, 1987	0830	0830	1	1	1	3	75.0	85.87
00081075	AP02392	PR	02	01	NOV 3, 1987	OCT 6, 1987	0835	0830	1	1	1	3	78.0	104.36
00081099	AP02430	PR	02	01	DEC 12, 1987	NOV 3, 1987	0830	0835	3		1	2	121.4	80.25
00081129	AP02430	PR	02	01	DEC 29, 1987	DEC 12, 1987	0845	0830	3			2	44.9	61.26

SAMPLE NUMBER	FIELD COMMENTS	OFFICE COMMENTS	VOLUME ML	CONDUCT UMHO/CM		LAB.PH		ACIDITY.TFE		SULFATE MG/L		NITRATE MG/L		CALCIUM MG/L	
00036573	G		247	32.30		4.24		****		1.60		0.82		0.14	
00036659	F		633	25.00		4.42		****		1.40		0.86		0.14	
00036745			754	14.60		4.53		****		0.90		0.24		<T	0.02
00036824		C	1526	D	32.00	4.06		****	D	3.20		0.75		<T	0.06
00036877			1013	48.15		4.07		****		5.85		0.84		0.68	
00036953		NHM	1886	43.46		4.15		****		5.70		0.88		0.58	
00037027	ABC	NC	642	LG	11.30	B	6.49	****		4.10		0.55		0.48	
00037086		N	1266	23.50		4.32		****		2.80		0.39		0.22	
00037160			3142	44.50		4.08		****		4.15		0.54		0.18	
00081042	JC		2091	26.00		4.34		****		2.55		0.37		0.28	
00081075			2643	31.00		4.29		****		2.60		0.69		0.16	
00081099		Z	3163	23.50		4.37		****		1.85		0.51		0.10	
00081129	G	HMZ	893	LG	4.00	UG	5.17	****	LG	0.30	LG	0.16		<T	0.02

ONTARIO MINISTRY OF THE ENVIRONMENT
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
DATA LISTING
CUMULATIVE SAMPLING ANALYSIS RESULTS

---------- REGION=NE STATION=MCKELLAR MIC TYPE A SITE NO.1 ----------

SAMPLE NUMBER	CHLORIDE MG/L	KJELDAHL MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE MG/L
00036573	0.34	0.290	0.030	<T 0.025	0.160	0.290	<T 0.003	0.002
00036659	0.31	0.630	<T 0.020	<T 0.010	0.170	0.535	0.011	0.002
00036745	0.09	<T 0.040	<W 0.005	<W 0.005	0.055	<W 0.005	<T 0.005	< 0.001
00036824	0.25	0.540	<T 0.010	<T 0.020	0.040	0.475	<T 0.006	0.002
00036877	0.09	0.760	0.095	0.060	0.070	0.740	0.011	UG 0.010
00036953	0.11	UG 1.540	0.120	UG 0.280	0.045	UG 1.350	0.064	UG 0.017
00037027	0.15	B 1.980	0.105	B 0.370	0.070	B 1.450	B 0.174	0.005
00037086	<W 0.01	0.380	0.030	<T 0.015	<T 0.025	0.365	<T 0.002	0.002
00037160	0.12	0.420	0.035	<T 0.015	0.035	0.335	<T 0.008	0.001
00081042	<T 0.03	0.330	0.050	0.030	<T 0.020	0.265	<T 0.005	0.002
00081075	0.13	0.440	0.030	<T 0.015	<T 0.015	0.400	<T 0.003	0.001
00081099	0.19	0.280	<T 0.015	<T 0.010	0.050	0.285	<T 0.002	0.001
00081129	0.15	0.210	<T 0.005	<T 0.005	0.045	0.090	<T 0.003	< 0.001

SAMPLE NUMBER	NICKEL MG/L	ZINC MG/L	IRON MG/L	LEAD MG/L	VANADIUM MG/L	ALUMINUM MG/L	COPPER MG/L	ACIDITY GRAN UG/L
00036573	D 0.0048	1DT 0.013	B 0.173	< 0.005	0.0004	0.061	B 0.0434	83.70
00036659	< 0.0002	1DT 0.012	0.030	1DT 0.004	< 0.0004	1DT 0.038	1DT 0.0022	64.40
00036745	< 0.0002	< 0.002	D 0.071	< 0.002	< 0.0004	1DT 0.015	1DT 0.0009	52.40
00036824	< 0.0002	1DT 0.002	0.013	1DT 0.001	< 0.0004	0.016	0.0013	D 108.00
00036877	D 0.0093	1DT 0.006	B 0.241	0.004	< 0.0004	0.062	D 0.0026	109.00
00036953	< 0.0002	1DT 0.009	0.035	0.002	< 0.0004	0.037	0.0020	93.60
00037027	0.0007	D 0.021	0.033	1DT 0.002	< 0.0004	0.056	0.0013	LG 28.80
00037086	0.0005	1DT 0.006	D 0.047	1DT 0.003	< 0.0004	1DT 0.016	1DT 0.0014	72.40
00037160	< 0.0002	1DT 0.001	0.011	0.005	< 0.0004	0.032	1DT 0.0007	107.00
00081042	< 0.0002	0.004	0.016	1DT 0.001	< 0.0004	0.014	0.0010	70.30
00081075	< 0.0002	< 0.001	0.013	0.009	< 0.0004	0.010	1DT 0.0007	88.70
00081099	< 0.0002	< 0.001	0.012	0.004	0.0008	0.012	0.0008	73.10
00081129	< 0.0002	< 0.002	0.009	0.004	< 0.0004	< 0.011	< 0.0004	LG 24.50

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---------- REGION=NE STATION=MOONBEAM MIC TYPE A SITE NO.1 ----------

SAMPLE NUMBER	SUBMISSION NUMBER	LIS SAMPLE TYPE	PROJECT CODE	SUB PROJECT CODE	SAMPLE REMOVAL DATE	EXPOSURE DATE	SAMPLE END HR	SAMPLE START HR	PREC. TYPE	PREC. AT EXP	PREC. AT REM.	GAUGE TYPE	GAUGE DEPTH(MM)	EFFICIENCY %
00036575	AP02121	PR	02	01	JAN 27, 1987	DEC 29, 1986	1338	1348	2	1	1	2	21.6	49.19
00036661	AP02167	PR	02	01	FEB 24, 1987	JAN 27, 1987	1327	1338	2	1		9	19.3	29.52
00036747	AP02179	PR	02	01	MAR 24, 1987	FEB 24, 1987	1350	1327	2			2	22.6	14.04
00036826	AP02203	PR	02	01	APR 21, 1987	MAR 24, 1987	1250	1350	1			2	22.2	50.92
00036879	AP02226	PR	02	01	MAY 19, 1987	APR 21, 1987	1415	1250	1			3	10.2	51.62
00036955	AP02251	PR	02	01	JUN 16, 1987	MAY 19, 1987	1330	1415	1			3	50.0	76.57
00037029	AP02279	PR	02	01	JUL 17, 1987	JUN 16, 1987	1345	1330	1			3	140.0	89.54
00037088	AP02295	PR	02	01	AUG 12, 1987	JUL 17, 1987	1353	1345	1			3	65.0	95.67
00037170	AP02319	PR	02	01	SEP 9, 1987	AUG 12, 1987	1428	1353	1			3	45.0	80.63
00081044	AP02348	PR	02	01	OCT 6, 1987	SEP 9, 1987	1441	1428	1		1	3	75.0	94.54
00081077	AP02392	PR	02	01	NOV 3, 1987	OCT 6, 1987	1435	1441	1			3	59.0	81.85
00081101	AP02413	PR	02	01	DEC 8, 1987	NOV 3, 1987	1335	1435	3			0	54.0	66.05
00081127	AP02430	PR	02	01	DEC 30, 1987	DEC 8, 1987	1430	1335	2			2	71.4	24.42

SAMPLE NUMBER	FIELD COMMENTS	OFFICE COMMENTS	VOLUME ML	CONDUCT UMHO/CM		LAB.PH	ACIDITY.TFE MG/L		SULFATE MG/L		NITRATE MG/L		CALCIUM MG/L	
00036575		N	345	30.50		4.27	****		1.40		0.89		0.22	
00036661	P	H	185	14.00	B	6.01	****		1.65		0.47		0.88	
00036747		NCM	103	39.60	B	7.68	****		1.05	<W	0.01	B	4.84	
00036826	D		367	17.00	UG	6.65	****		4.75		0.52	UG	2.00	
00036879			305	34.96	UG	7.49	****	UG	5.05		0.61	B	3.52	
00036955	C		1243	16.17		4.49	****		1.75		0.24		0.16	
00037029	D	Z	4070	9.40		4.89	****	LG	0.85		0.15		0.18	
00037088		Z	2019	17.00		4.50	****		1.65		0.20	<T	0.10	
00037170			1178	16.00		4.61	****		1.55		0.23		0.14	
00081044			2302	17.00		4.64	****		2.15		0.27		0.22	
00081077			1568	22.00		4.47	****		2.10		0.41		0.16	
00081101	GQ	Z	1158	11.00		4.59	****		1.15		0.22	<T	0.08	
00081127	G	Z	566	11.00		4.62	****		0.75		0.25	<T	0.04	

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SAMPLE NUMBER	CHLORIDE MG/L	KJELDAHL MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE MG/L
00036575	0.36	0.300	0.040	0.035	0.225	0.290	0.031	0.003
00036661	B 0.64	0.280	D 0.140	D 0.035	B 0.415	0.090	0.021	UG 0.012
00036747	B 0.76	!IS ****	B 1.280	D 0.050	B 0.435	<W 0.005	!IS ****	B 0.009
00036826	0.25	0.780	B 0.410	D 0.110	D 0.175	0.180	D 0.052	B 0.014
00036879	0.13	UG 1.170	B 0.635	0.210	UG 0.235	0.745	0.069	0.001
00036955	0.07	0.290	0.030	0.055	0.035	0.240	<W 0.002	0.002
00037029	<T 0.05	0.160	<T 0.015	0.030	<T 0.010	LG 0.080	<W 0.002	0.001
00037088	<W 0.01	0.180	<T 0.015	<T 0.005	0.030	0.140	<T 0.002	< 0.001
00037170	<W 0.01	0.190	<T 0.015	<T 0.005	<T 0.020	0.155	<T 0.002	0.001
00081044	<T 0.02	D 0.400	0.030	<T 0.020	UG 0.140	D 0.360	<T 0.005	0.002
00081077	0.12	0.280	0.030	0.025	0.030	0.245	<T 0.002	0.002
00081101	0.11	0.190	<T 0.020	<W 0.005	0.055	0.130	<W 0.002	< 0.001
00081127	0.06	0.100	<T 0.005	<W 0.005	<T 0.020	0.040	<W 0.002	< 0.001

SAMPLE NUMBER	NICKEL MG/L	ZINC MG/L	IRON MG/L	LEAD MG/L	VANADIUM MG/L	ALUMINUM MG/L	COPPER MG/L	ACIDITY GRAN UG/L
00036575	0.0034	1DT 0.010	0.039	1DT 0.003	< 0.0004	0.067	0.0033	81.70
00036661	0.0006	1DT 0.015	0.140	0.008	< 0.0004	D 0.109	1DT 0.0008	LG 19.10
00036747	0.0019	1DT 0.011	B 0.754	< 0.011	D 0.0005	B 0.637	0.0047	LG 9.34
00036826	0.0009	1DT 0.004	0.113	< 0.004	< 0.0004	D 0.128	0.0036	LG 15.40
00036879	0.0006	0.033	UG 0.216	0.004	< 0.0004	B 2.721	0.0026	LG 14.20
00036955	< 0.0002	1DT 0.003	0.012	< 0.002	< 0.0004	0.026	0.0011	48.60
00037029	0.0006	< 0.001	1DT 0.008	1DT 0.002	< 0.0004	1DT 0.011	1DT 0.0006	32.10
00037088	0.0005	< 0.001	0.011	1DT 0.003	< 0.0004	1DT 0.014	1DT 0.0007	54.50
00037170	< 0.0002	1DT 0.004	0.007	0.004	< 0.0004	1DT 0.033	1DT 0.0009	45.50
00081044	< 0.0002	1DT 0.004	0.015	< 0.001	< 0.0004	1DT 0.013	0.0006	45.70
00081077	D 0.0013	< 0.002	0.020	0.010	< 0.0004	0.014	1DT 0.0010	64.90
00081101	< 0.0002	< 0.002	0.005	0.015	< 0.0004	1DT 0.010	1DT 0.0007	47.70
00081127	< 0.0002	< 0.003	0.022	0.009	< 0.0004	< 0.014	1DT 0.0009	44.30

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---------- REGION=NE STATION=MOOSONEE MIC TYPE A SITE NO.1 ----------

SAMPLE NUMBER	SUBMISSION NUMBER	LIS SAMPLE TYPE	PROJECT CODE	SUB PROJECT CODE	SAMPLE REMOVAL DATE	EXPOSURE DATE	SAMPLE END HR	SAMPLE START HR	PREC. TYPE	PREC. AT EXP	PREC. AT REM.	GAUGE TYPE	GAUGE DEPTH(MM)	EFFICIENCY %
00036576	AP02121	PR	02	01	FEB 2, 1987	DEC 30, 1986	1300	1330	2		1	2	142.0	6.72
00036662	AP02167	PR	02	01	FEB 25, 1987	FEB 2, 1987	1300	1300	2	1	1	2	20.6	12.71
00036827	AP02203	PR	02	01	APR 15, 1987	FEB 25, 1987	1723	1300	1			2	31.3	43.49
00036880	AP02226	PR	02	01	MAY 19, 1987	APR 15, 1987	1230	1723	1			3	41.0	84.36
00036956	AP02251	PR	02	01	JUN 16, 1987	MAY 19, 1987	1900	1230	1			3	44.0	17.08
00037030	AP02279	PR	02	01	JUL 15, 1987	JUN 16, 1987	1831	1900	1			3	71.0	126.19
00037089	AP02295	PR	02	01	AUG 11, 1987	JUL 15, 1987	1937	1831	1			3	110.0	93.94
00037171	AP02319	PR	02	01	SEP 8, 1987	AUG 11, 1987	2000	1937	1			2	91.0	87.19
00081046	AP02348	PR	02	01	OCT 6, 1987	SEP 8, 1987	1730	2000	1		1	3	34.3	95.00
00081078	AP02392	PR	02	01	NOV 3, 1987	OCT 6, 1987	1730	1730	1	1		3	54.7	48.82
00081102	AP02413	PR	02	01	DEC 1, 1987	NOV 3, 1987	1230	1730	3			0	31.8	145.77
00081128	AP02430	PR	02	01	DEC 29, 1987	DEC 1, 1987	1730	1230	2			2	28.6	83.57

SAMPLE NUMBER	FIELD COMMENTS	OFFICE COMMENTS	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	ACIDITY.TFE	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L
00036576	P	Z	310	16.30	4.55	****	0.85	0.40	<T 0.10
00036662		NZ	85	9.00	5.23	****	1.10	0.22	0.50
00036827		NHZ	442	8.00	5.18	****	1.50	0.21	0.54
00036880	D	HZ	1123	24.07	4.52	****	3.75	0.45	0.92
00036956	G		244	> 100.00	UG 8.28	****	UG 12.50	0.07	1.58
00037030	QA	N	2909	12.20	4.79	****	1.20	0.25	0.20
00037089			3355	8.00	UG 6.78	****	0.80	0.10	0.26
00037171			2576	14.00	4.65	****	1.35	0.15	<T 0.06
00081046	B		1058	20.00	4.65	****	2.50	0.28	0.50
00081078		N	867	31.00	4.36	****	2.90	0.50	0.14
00081102		N	1505	!NR ****	!NR ****	****	!NR ****	!NR ****	!NR ****
00081128	G		776	13.00	4.60	****	0.80	0.34	0.12

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---------- REGION=NE STATION=MOOSONEE MIC TYPE A SITE NO.1 ----------

SAMPLE NUMBER	CHLORIDE MG/L	KJELDAHL MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE MG/L
00036576	0.23	0.200	0.035	<T 0.015	0.090	0.115	<T 0.002	0.001
00036662	0.31	UG 9.000	0.095	0.040	0.180	!IR ****	<W 0.002	****
00036827	0.13	0.380	0.085	<T 0.010	0.065	0.160	<T 0.005	UG 0.004
00036880	0.07	0.620	0.105	0.080	0.080	0.525	0.013	0.011
00036956	2.75	!SM ****	UG 0.405	U 23.000	U 34.000	U 50.000	!SM ****	< 0.001
00037030	0.20	0.300	0.035	0.090	0.080	0.150	<W 0.002	0.003
00037089	0.50	0.580	0.035	0.295	0.240	0.360	<T 0.004	0.001
00037171	<W 0.01	0.190	<T 0.010	<T 0.010	0.050	0.140	<T 0.004	< 0.001
00081046	0.52	0.250	0.130	0.080	0.510	0.120	0.013	0.005
00081078	0.59	0.490	0.050	0.040	0.320	0.430	<W 0.002	0.001
00081102	!NR ****	!NR ****	!NR ****	!NR ****	!NR ****	!NR ****	!NR ****	****
00081128	0.24	<T 0.090	0.025	<T 0.005	0.100	0.040	<W 0.002	< 0.001

SAMPLE NUMBER	NICKEL MG/L	ZINC MG/L	IRON MG/L	LEAD MG/L	VANADIUM MG/L	ALUMINUM MG/L	COPPER MG/L	ACIDITY GRAN UG/L
00036576	0.0005	1DT 0.035	0.027	1DT 0.003	< 0.0004	0.044	0.0021	49.40
00036662	****	****	****	****	****	****	****	26.00
00036827	< 0.0002	1DT 0.008	0.065	< 0.003	< 0.0004	0.049	0.0019	26.20
00036880	0.0005	1DT 0.005	0.050	0.003	< 0.0004	0.072	0.0007	53.70
00036956	UG 0.0107	0.073	0.181	< 0.005	0.0037	UG 0.150	UG 0.0571	<W 1.00
00037030	0.0008	1DT 0.016	0.007	1DT 0.001	< 0.0004	1DT 0.043	0.0013	36.30
00037089	0.0008	0.024	0.017	1DT 0.003	0.0004	1DT 0.011	0.0036	17.10
00037171	< 0.0002	< 0.001	1DT 0.004	0.008	< 0.0004	1DT 0.020	1DT 0.0002	42.40
00081046	< 0.0002	0.031	0.024	0.003	< 0.0004	0.031	0.0010	47.00
00081078	< 0.0002	1DT 0.006	0.010	0.023	< 0.0004	1DT 0.010	1DT 0.0013	86.30
00081102	****	****	****	****	****	****	****	!NR ****
00081128	0.0013	< 0.002	0.074	0.007	< 0.0004	< 0.011	0.0010	46.60

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---------- REGION=NE STATION=TURKEY LAKES MIC TYPE A SITE NO.1 ----------

SAMPLE NUMBER	SUBMISSION NUMBER	LIS SAMPLE TYPE	PROJECT CODE	SUB PROJECT CODE	SAMPLE REMOVAL DATE	EXPOSURE DATE	SAMPLE END HR	SAMPLE START HR	PREC. TYPE	PREC. AT EXP	PREC. AT REM.	GAUGE TYPE	GAUGE DEPTH(MM)	EFFICIENCY %
00036572	AP02121	PR	02	01	JAN 27, 1987	DEC 30, 1986	1200	1030	2		1	2	41.8	69.63
00036658	AP02167	PR	02	01	FEB 24, 1987	JAN 27, 1987	1045	1215	2	1		2	32.4	66.73
00036744	AP02179	PR	02	01	MAR 24, 1987	FEB 24, 1987	1135	1045	2		2	2	17.3	55.01
00036823	AP02203	PR	02	01	APR 21, 1987	MAR 24, 1987	1102	1135	1			2	47.1	73.04
00036876	AP02226	PR	02	01	MAY 19, 1987	APR 21, 1987	0855	1102	1		1	3	67.2	88.69
00036952	AP02251	PR	02	01	JUN 16, 1987	MAY 19, 1987	1030	0855	1	1		3	93.0	92.00
00037026	AP02279	PR	02	01	JUL 14, 1987	JUN 16, 1987	1120	1030	1		1	3	52.0	97.49
00037085	AP02295	PR	02	01	AUG 11, 1987	JUL 14, 1987	1130	1120	3	1		3	40.0	83.31
00037159	AP02319	PR	02	01	SEP 8, 1987	AUG 11, 1987	1000	1130	1			3	175.0	89.76
00081041	AP02348	PR	02	01	OCT 6, 1987	SEP 8, 1987	1130	1000	1		1	3	82.0	88.38
00081074	AP02392	PR	02	01	NOV 3, 1987	OCT 6, 1987	1030	1130	1	1		3	69.0	118.16
00081098	AP02413	PR	02	01	DEC 1, 1987	NOV 3, 1987	1200	1030	3			3	106.4	86.76
00081124	AP02430	PR	02	01	DEC 29, 1987	DEC 1, 1987	1230	1200	3			2	145.7	79.51

SAMPLE NUMBER	FIELD COMMENTS	OFFICE COMMENTS	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	ACIDITY.TFE	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L
00036572			945	21.40	4.48	****	1.05	0.59	0.12
00036658			702	25.00	4.44	****	1.90	0.79	0.30
00036744			309	18.80	4.39	****	1.30	0.33	<T 0.06
00036823		C	1117	28.00	4.16	****	3.80	0.53	0.18
00036876		H	1935	13.76	5.04	****	1.75	0.35	0.34
00036952	A		2778	25.27	4.32	****	2.85	0.46	0.14
00037026	A	C	1646	10.80	4.53	****	2.20	0.46	0.26
00037085			1082	20.00	4.42	****	2.25	0.36	0.22
00037159			5100	17.00	4.61	****	1.90	0.27	0.12
00081041	B		2353	LG 7.50	5.24	****	1.40	0.23	0.32
00081074			2647	19.00	4.63	****	2.25	0.51	0.40
00081098			2997	17.00	4.40	****	1.65	0.36	0.16
00081124	ACF		3761	14.50	4.54	****	1.00	0.37	<T 0.06

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---------- REGION=NE STATION=TURKEY LAKES MIC TYPE A SITE NO.1 ----------

SAMPLE NUMBER	CHLORIDE MG/L	KJELDAHL MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE MG/L
00036572	0.27	0.220	0.025	0.060	0.130	0.235	<T 0.002	0.001
00036658	0.21	0.620	0.035	<T 0.005	0.095	D 0.560	<T 0.006	0.003
00036744	0.14	0.160	<T 0.010	<W 0.005	0.120	0.080	D 0.016	0.001
00036823	0.15	0.630	0.030	<T 0.025	0.055	0.475	<T 0.009	0.005
00036876	<W 0.01	0.470	0.065	0.035	0.025	0.460	<T 0.003	0.006
00036952	<W 0.01	0.600	0.025	0.040	<T 0.020	0.595	<T 0.003	0.002
00037026	0.15	0.420	0.055	<W 0.005	D 0.075	0.370	<T 0.008	D 0.005
00037085	0.14	0.360	0.025	<T 0.015	0.035	0.295	<T 0.003	0.003
00037159	<W 0.01	0.360	<T 0.015	<T 0.010	<T 0.010	0.340	<T 0.006	0.001
00081041	<W 0.01	0.240	0.035	D 0.210	0.090	0.140	<T 0.004	B 0.048
00081074	0.08	0.440	0.060	0.035	<T 0.020	0.375	<T 0.005	0.005
00081098	0.21	0.270	<T 0.010	<W 0.005	0.055	0.225	<W 0.002	< 0.001
00081124	0.06	0.200	<T 0.005	<T 0.005	<T 0.020	D 0.145	<W 0.002	< 0.001

SAMPLE NUMBER	NICKEL MG/L	ZINC MG/L	IRON MG/L	LEAD MG/L	VANADIUM MG/L	ALUMINUM MG/L	COPPER MG/L	ACIDITY GRAN UG/L
00036572	0.0002	1DT 0.007	0.013	< 0.002	< 0.0004	0.027	D 0.0012	56.20
00036658	< 0.0002	1DT 0.003	0.026	1DT 0.002	0.0004	1DT 0.031	1DT 0.0009	60.20
00036744	< 0.0002	< 0.004	0.012	< 0.004	< 0.0004	1DT 0.033	1DT 0.0013	58.70
00036823	0.0007	0.002	0.022	1DT 0.001	< 0.0004	0.031	0.0051	91.10
00036876	< 0.0002	1DT 0.001	0.036	0.002	< 0.0004	1DT 0.052	1DT 0.0005	28.20
00036952	< 0.0002	0.003	0.009	< 0.001	< 0.0004	0.017	0.0009	65.30
00037026	0.0004	1DT 0.007	0.021	1DT 0.001	< 0.0004	0.028	0.0007	52.00
00037085	0.0007	1DT 0.005	0.018	1DT 0.004	< 0.0004	1DT 0.022	1DT 0.0011	62.50
00037159	< 0.0002	1DT 0.002	0.007	0.004	< 0.0004	0.018	1DT 0.0003	44.60
00081041	< 0.0002	0.009	B 0.075	0.007	< 0.0004	0.011	1DT 0.0005	31.90
00081074	< 0.0002	< 0.001	0.023	0.005	< 0.0004	1DT 0.029	< 0.0003	52.80
00081098	< 0.0002	< 0.001	0.007	1DT 0.002	< 0.0004	< 0.007	1DT 0.0024	60.70
00081124	< 0.0002	< 0.001	0.007	0.003	< 0.0004	1DT 0.006	1DT 0.0002	50.90

ONTARIO MINISTRY OF THE ENVIRONMENT
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
DATA LISTING
CUMULATIVE SAMPLING ANALYSIS RESULTS

---------- REGION=NE STATION=WHITNEY MIC TYPE A SITE NO.1 ----------

SAMPLE NUMBER	SUBMISSION NUMBER	LIS SAMPLE TYPE	PROJECT CODE	SUB PROJECT CODE	SAMPLE REMOVAL DATE	EXPOSURE DATE	SAMPLE END HR	SAMPLE START HR	PREC. TYPE	PREC. AT EXP	PREC. AT REM.	GAUGE TYPE	GAUGE DEPTH(MM)	EFFICIENCY %
00029641	AP02135	PR	02	01	JAN 27, 1987	DEC 30, 1986	1330	1000	2			2	19.0	78.95
00029642	AP02135	PR	02	01	FEB 24, 1987	JAN 27, 1987	1335	1330	2			2	39.0	74.16
00029665	AP02219		02	01	MAR 23, 1987	FEB 24, 1987	1615	1335	2			9	12.5	67.27
00029664	AP02219		02	01	APR 21, 1987	MAR 23, 1987	1145	1615	3			2	83.0	81.53
00029681	AP02251	PR	02	01	MAY 19, 1987	APR 21, 1987	1135	1145	1			3	26.0	177.93
00029682	AP02251	PR	02	01	JUN 16, 1987	MAY 19, 1987	1410	1135	1			3	101.0	91.85
00029690	AP02279	PR	02	01	JUL 21, 1987	JUN 16, 1987	0835	1410	1			3	33.0	112.19
00029696	AP02279	PR	02	01	AUG 11, 1987	JUL 21, 1987	0830	0835	1			3	39.0	91.77
00076010	AP02344	PR	02	01	SEP 8, 1987	AUG 11, 1987	0830	0830	1			3	44.0	97.93
00076011	AP02344	PR	02	01	OCT 6, 1987	SEP 8, 1987	0830	0830	1			9	89.8	63.11
00076031	AP02407	PR	02	01	NOV 4, 1987	OCT 6, 1987	1540	1610	3		1	3	81.0	99.43
00076044	AP02439	PR	02	01	DEC 1, 1987	NOV 4, 1987	1550	1540	3			2	85.0	66.96
00076045	AP02439	PR	02	01	DEC 29, 1987	DEC 1, 1987	1330	1550	3	1		2	62.0	74.12

SAMPLE NUMBER	FIELD COMMENTS	OFFICE COMMENTS	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	ACIDITY.TFE	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L
00029641			487	27.10	4.21	****	1.50	0.67	0.16
00029642	C		939	22.40	4.42	****	0.85	0.64	<T 0.08
00029665	I	X	273	****	****	****	****	****	****
00029664	E		2197	****	****	****	****	****	****
00029681		N	1502	31.84	4.33	****	4.45	0.73	0.76
00029682		H	3012	18.19 UG	6.07	****	3.75	0.42	0.18
00029690		Z	1202	19.90	4.42	****	2.10	0.30	0.12
00029696		Z	1162	32.30	4.18	****	3.40	0.35	0.10
00076010			1399	B 63.50	3.93	****	5.45	0.84	0.32
00076011			1840	21.00	4.45	****	2.00	0.30	0.20
00076031			2615	30.00	4.24	****	2.45	0.68	0.22
00076044	P		1848	15.50	4.52	****	1.25	0.34	<T 0.06
00076045			1492	22.50	4.33	****	1.40	0.52	<T 0.06

ONTARIO MINISTRY OF THE ENVIRONMENT
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
DATA LISTING
CUMULATIVE SAMPLING ANALYSIS RESULTS

---------- REGION-NE STATION-WHITNEY MIC TYPE A SITE NO.1 ----------

SAMPLE NUMBER	CHLORIDE	KJELDAHL	MAGNESIUM	POTASSIUM	SODIUM	AMMONIUM	PHOSPHOR	MANGANESE
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
00029641	0.23	0.310	<T 0.015	<T 0.010	0.120	0.160	0.017	0.002
00029642	0.16	0.220	<T 0.010	<W 0.005	0.055	0.160	<T 0.007	0.001
00029665	****	****	****	****	****	****	****	****
00029664	****	****	****	****	****	****	****	****
00029681	0.06	0.830	0.110	0.080	0.045	0.815	<T 0.006	0.001
00029682	0.06	UG 2.120	0.025	0.150	<T 0.025	UG 1.550	UG 0.126	0.003
00029690	<T 0.05	0.280	0.030	<T 0.020	<T 0.010	0.240	<W 0.002	0.002
00029696	0.10	0.390	D 0.010	<T 0.015	<T 0.005	0.340	<W 0.002	B 0.017
00076010	0.19	0.440	0.050	0.030	0.035	0.370	<T 0.005	0.002
00076011	<T 0.05	0.210	0.030	0.025	<T 0.020	0.190	<T 0.003	0.001
00076031	<T 0.01	0.370	0.025	<T 0.020	<T 0.025	0.355	<W 0.002	0.001
00076044	0.08	0.160	<T 0.005	<T 0.010	0.050	0.145	<T 0.003	< 0.001
00076045	0.11	0.180	<T 0.005	<T 0.005	0.045	0.145	<T 0.004	< 0.001

SAMPLE NUMBER	NICKEL	ZINC	IRON	LEAD	VANADIUM	ALUMINUM	COPPER	ACIDITY GRAN
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L
00029641	< 0.0002	0.011	0.025	1DT 0.003	< 0.0004	0.062	0.0010	81.90
00029642	< 0.0002	0.005	0.010	1DT 0.002	< 0.0004	0.023	0.0013	67.00
00029665	****	****	****	****	****	****	****	****
00029664	****	****	****	****	****	****	****	****
00029681	0.0002	1DT 0.004	0.062	0.002	D 0.0009	0.073	0.0011	66.70
00029682	< 0.0002	0.007	1DT 0.021	1DT 0.001	0.0006	0.031	1DT 0.0005	LG 26.70
00029690	0.0003	< 0.002	0.009	1DT 0.002	< 0.0004	1DT 0.009	1DT 0.0004	60.40
00029696	D 0.0010	< 0.002	0.011	< 0.002	< 0.0004	1DT 0.006	0.0011	90.40
00076010	0.0005	0.004	0.025	0.005	< 0.0004	0.027	1DT 0.0011	UG 161.00
00076011	< 0.0002	1DT 0.001	0.014	1DT 0.004	< 0.0004	0.013	0.0006	61.80
00076031	< 0.0002	1DT 0.002	0.016	0.017	< 0.0004	0.015	0.0007	87.00
00076044	< 0.0002	< 0.002	0.007	0.005	< 0.0004	< 0.008	1DT 0.0003	53.70
00076045	< 0.0002	< 0.002	0.009	0.011	< 0.0004	1DT 0.009	1DT 0.0003	73.90

PART V

NORTHWESTERN REGION CUMULATIVE AMBIENT AIR RESULTS

ONTARIO MINISTRY OF THE ENVIRONMENT
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
DATA LISTING
CUMULATIVE SAMPLING ANALYSIS RESULTS

---------- REGION=NW STATION=DORION MIC TYPE A SITE NO.1 ----------

SAMPLE NUMBER	SUBMISSION NUMBER	LIS SAMPLE TYPE	PROJECT CODE	SUB PROJECT CODE	SAMPLE REMOVAL DATE	EXPOSURE DATE	SAMPLE END HR	SAMPLE START HR	PREC. TYPE	PREC. AT EXP	PREC. AT REM.	GAUGE TYPE	GAUGE DEPTH(MM)	EFFICIENCY %
00031620	AP02135	PR	02	01	JAN 27, 1987	DEC 30, 1986	0908	0939	3			2	11.0	42.00
00031622	AP02173	PR	02	01	FEB 24, 1987	JAN 27, 1987	0845	0930	2			2	29.3	73.37
00031623	AP02190	PR	02	01	MAR 24, 1987	FEB 24, 1987	0857	0849	2			2	12.1	22.15
00031624	AP02226	PR	02	01	APR 21, 1987	MAR 24, 1987	0907	0902	1			2	4.5	78.03
00031625	AP02243	PR	02	01	MAY 19, 1987	APR 21, 1987	0910	0908	1			2	20.3	87.70
00031626	AP02251	PR	02	01	JUN 16, 1987	MAY 19, 1987	0903	0910	1			2	52.0	85.71
00031627	AP02295	PR	02	01	JUL 14, 1987	JUN 16, 1987	0904	0906	1			3	46.0	102.58
00031628	AP02309	PR	02	01	AUG 11, 1987	JUL 14, 1987	0913	0904	1			3	77.0	87.28
00031629	AP02330	PR	02	01	SEP 8, 1987	AUG 11, 1987	0920	0915	1			9	105.1	107.43
00031630	AP02374	PR	02	01	OCT 6, 1987	SEP 8, 1987	0900	0926	1	1	1	3	52.0	91.75
00031631	AP02394	PR	02	01	NOV 3, 1987	OCT 6, 1987	0905	0914	1	1		2	56.0	90.47
00031632	AP02412	PR	02	01	DEC 1, 1987	NOV 3, 1987	0908	0910	2		1	9	39.0	60.34
00031633	AP02439	PR	02	01	DEC 29, 1987	DEC 1, 1987	0833	0912	2	1		2	36.0	13.69

SAMPLE NUMBER	FIELD COMMENTS	OFFICE COMMENTS	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	ACIDITY.TFE	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L
00031620		N	150	22.90	4.48	****	1.70	0.62	0.26
00031622			698	24.50	4.31	****	1.30	0.70	0.20
00031623		NC	87	24.00	4.93	****	1.20	<W 0.01	<T 0.08
00031624	Q		114	42.99	4.13	****	4.35	0.94	0.60
00031625	Q		578	15.13	UG 6.76	****	1.90	0.51	0.68
00031626	C	H	1447	12.13	4.70	****	1.30	0.22	0.16
00031627	C		1532	14.50	4.76	****	1.45	0.25	0.12
00031628	CAF	H	2182	11.00	5.16	****	1.60	0.30	0.24
00031629	QF		3666	10.00	4.88	****	1.20	0.18	0.14
00031630	D	H	1549	7.00	4.98	****	0.90	0.13	0.16
00031631	D		1645	6.50	4.85	****	1.25	0.21	0.14
00031632	CP		764	18.00	4.45	****	1.80	0.48	0.12
00031633		N	160	21.00	4.39	****	1.40	0.49	0.22

ONTARIO MINISTRY OF THE ENVIRONMENT
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
DATA LISTING
CUMULATIVE SAMPLING ANALYSIS RESULTS

---------- REGION=NW STATION=DORION MIC TYPE A SITE NO.1 ----------

SAMPLE NUMBER	CHLORIDE MG/L	KJELDAHL MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE MG/L
00031620	0.42	0.460	0.030	<T 0.020	0.305	0.340	<W 0.002	0.004
00031622	0.20	0.370	0.030	<T 0.010	0.090	0.230	<T 0.009	0.003
00031623	0.54	!IS ****	<T 0.010	<T 0.005	0.395	<T 0.010	!IS ****	< 0.001
00031624	0.49	!IS ****	0.075	0.085	0.380	0.555	!IS ****	****
00031625	0.06	1.100	0.140	0.090	0.075	0.740	0.034	0.002
00031626	0.07	0.350	<T 0.020	0.060	0.025	0.265	<T 0.008	0.003
00031627	<W 0.01	0.400	0.025	0.030	0.035	0.275	<T 0.009	0.002
00031628	0.22	0.390	0.050	0.045	0.035	0.360	0.017	0.007
00031629	<T 0.03	0.250	<T 0.020	0.035	<T 0.015	0.225	<T 0.003	0.001
00031630	<W 0.01	0.140	0.030	0.025	0.035	0.120	<T 0.004	0.002
00031631	0.07	0.260	0.025	<T 0.005	0.035	0.200	<T 0.006	< 0.001
00031632	0.23	0.470	<T 0.015	<T 0.010	0.075	0.395	<T 0.007	0.001
00031633	D 0.51	0.230	<T 0.010	<T 0.005	0.415	<T 0.005	D 0.034	****

SAMPLE NUMBER	NICKEL MG/L	ZINC MG/L	IRON MG/L	LEAD MG/L	VANADIUM MG/L	ALUMINUM MG/L	COPPER MG/L	ACIDITY GRAN UG/L
00031620	< 0.0002	0.018	0.044	1DT 0.004	< 0.0004	0.098	1DT 0.0073	60.00
00031622	0.0003	1DT 0.007	0.019	1DT 0.003	< 0.0004	0.030	1DT 0.0014	71.90
00031623	0.0002	< 0.012	D 0.062	< 0.012	< 0.0004	0.102	0.0038	31.40
00031624	****	****	****	****	****	****	****	107.00
00031625	< 0.0004	< 0.003	1DT 0.005	< 0.003	< 0.0004	UG 0.114	1DT 0.0018	20.20
00031626	D 0.0005	1DT 0.003	D 0.020	< 0.002	< 0.0004	0.028	0.0008	36.30
00031627	0.0004	1DT 0.001	1DT 0.022	1DT 0.002	< 0.0004	1DT 0.016	< 0.0003	38.40
00031628	0.0005	< 0.001	0.043	1DT 0.001	< 0.0004	1DT 0.030	1DT 0.0004	25.10
00031629	< 0.0002	0.006	0.012	0.016	< 0.0004	1DT 0.012	0.0005	36.30
00031630	D 0.0003	1DT 0.004	0.011	0.012	< 0.0004	1DT 0.008	1DT 0.0004	32.10
00031631	< 0.0002	< 0.002	0.005	0.009	< 0.0004	< 0.008	< 0.0003	38.10
00031632	< 0.0002	1DT 0.003	0.011	B 0.125	< 0.0004	1DT 0.013	1DT 0.0006	62.30
00031633	****	****	****	****	****	****	****	72.60

ONTARIO MINISTRY OF THE ENVIRONMENT
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
DATA LISTING
CUMULATIVE SAMPLING ANALYSIS RESULTS

---------- REGION=NW STATION=E.L.A. M1C TYPE A SITE NO.1 ----------

SAMPLE NUMBER	SUBMISSION NUMBER	LIS SAMPLE TYPE	PROJECT CODE	SUB PROJECT CODE	SAMPLE REMOVAL DATE	EXPOSURE DATE	SAMPLE END HR	SAMPLE START HR	PREC. TYPE	PREC. AT EXP	PREC. AT REM.	GAUGE TYPE	GAUGE DEPTH(MM)	EFFICIENCY %
00013220	AP02104	PR	02	01	JAN 1, 1987	DEC 2, 1986	1900	0930	2			2	15.8	31.38
00013221	AP02135	PR	02	01	JAN 27, 1987	JAN 1, 1987	1000	1900	2		1	2	8.2	26.29
00013223	AP02173	PR	02	01	FEB 25, 1987	JAN 27, 1987	0930	1000	2	1	1	2	21.1	51.67
00013224	AP02190	PR	02	01	MAR 24, 1987	FEB 25, 1987	0940	0930	3	1		2	28.6	59.98
00013225	AP02226	PR	02	01	APR 21, 1987	MAR 24, 1987	1055	0940	3			2	3.6	21.39
00013226	AP02243	PR	02	01	MAY 19, 1987	APR 21, 1987	0905	1055	1			2	16.2	85.75
00013227	AP02251	PR	02	01	JUN 16, 1987	MAY 19, 1987	0953	0905	1			2	126.0	86.09
00013228	AP02295	PR	02	01	JUL 14, 1987	JUN 16, 1987	1912	0953	1		1	3	34.0	102.82
00013229	AP02309	PR	02	01	AUG 12, 1987	JUL 14, 1987	0933	1912	1			3	100.0	84.79
00013230	AP02330	PR	02	01	SEP 8, 1987	AUG 12, 1987	0930	0933	1			2	30.0	87.57
00013231	AP02374	PR	02	01	OCT 6, 1987	SEP 8, 1987	0910	0930	1			2	28.3	79.45
00013232	AP02394	PR	02	01	NOV 3, 1987	OCT 6, 1987	0930	0910	3			2	20.2	72.43
00013233	AP02412	PR	02	01	DEC 3, 1987	NOV 3, 1987	0850	0930	3			2	25.8	69.96
00013234	AP02439	PR	02	01	DEC 29, 1987	DEC 3, 1987	0900	0900	2			2	15.0	31.21

SAMPLE NUMBER	FIELD COMMENTS	OFFICE COMMENTS	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	ACIDITY.TFE	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L
00013220		NZ	161	10.30	4.80	****	0.95	0.34	0.28
00013221		NZ	70	7.77	5.08	****	0.50	0.24	0.28
00013223			354	32.00	4.21	****	2.40	0.92	0.28
00013224		C	557	20.00	4.32	****	2.40	0.87	0.14
00013225		N	25	B 80.24 !IS	****	****	B 8.90	UG 1.36 !IS	****
00013226	QF		451	10.26	6.38	****	1.40	0.30	0.64
00013227		C	3522	7.15	5.13	****	0.60	0.12 <T	0.06
00013228		C	1135	5.50	5.77	****	0.60	0.17	0.14
00013229	CD		2753	6.00	6.16	****	0.90	0.23	0.24
00013230		H	853	8.00	5.23	****	0.85	0.26	0.20
00013231			730	7.50	5.77	****	1.20	0.23	0.28
00013232		H	475	7.00	6.01	****	1.25	0.30	0.30
00013233	B	Z	586	14.00	4.72	****	1.75	0.47	0.20
00013234		NHZ	152	22.50	4.50	****	1.70	0.47 D	0.42

ONTARIO MINISTRY OF THE ENVIRONMENT
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
DATA LISTING
CUMULATIVE SAMPLING ANALYSIS RESULTS

---------- REGION=NW STATION=E.L.A. MIC TYPE A SITE NO.1 ----------

SAMPLE NUMBER	CHLORIDE MG/L	KJELDAHL MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE MG/L
00013220	0.24	!IS ****	0.050	<T 0.020	0.165	0.190	!IS ****	0.007
00013221	0.33	!IS ****	0.040	<T 0.005	0.245	<W 0.005	!IS ****	****
00013223	0.24	0.480	0.040	<T 0.015	0.105	0.410	D 0.015	0.003
00013224	0.15	0.810	<T 0.015	<T 0.010	0.060	0.670	<T 0.006	0.002
00013225	B 3.55	!IS ****	!IS ****	!IS ****	!IS ****	!IS ****	!IS ****	****
00013226	0.14	0.570	0.100	0.055	0.120	0.330	0.021	0.008
00013227	<T 0.03	0.180	<T 0.005	0.035	0.030	0.160	<W 0.002	0.001
00013228	<W 0.01	0.260	0.035	<T 0.015	<T 0.010	0.200	<T 0.004	D 0.004
00013229	<W 0.01	0.380	0.050	0.055	<T 0.010	0.300	0.012	0.005
00013230	0.06	0.330	0.030	0.030	<T 0.015	0.295	<T 0.003	0.002
00013231	0.10	0.420	0.055	0.045	0.080	0.280	<T 0.009	0.005
00013232	0.18	0.500	0.065	<T 0.020	0.095	0.345	0.011	0.005
00013233	0.30	0.580	<T 0.015	D 0.045	D 0.285	0.455	B 0.075	0.001
00013234	0.28	0.350	D 0.080	<T 0.010	0.350	D 0.155	0.019	****

SAMPLE NUMBER	NICKEL MG/L	ZINC MG/L	IRON MG/L	LEAD MG/L	VANADIUM MG/L	ALUMINUM MG/L	COPPER MG/L	ACIDITY GRAN UG/L
00013220	< 0.0002	1DT 0.011	UG 0.091	1DT 0.005	< 0.0004	0.104	0.0014	31.40
00013221	****	****	****	****	****	****	****	30.30
00013223	0.0004	1DT 0.006	0.026	1DT 0.003	< 0.0004	1DT 0.024	1DT 0.0011	90.90
00013224	0.0004	1DT 0.007	0.018	1DT 0.003	< 0.0004	1DT 0.056	0.0014	80.30
00013225	****	****	****	****	****	****	****	!IS ****
00013226	< 0.0004	< 0.003	1DT 0.008	< 0.003	< 0.0004	1DT 0.017	1DT 0.0010	20.90
00013227	< 0.0002	1DT 0.001	0.004	< 0.001	< 0.0004	0.009	1DT 0.0002	23.10
00013228	0.0004	< 0.002	0.014	D 0.004	< 0.0004	1DT 0.017	< 0.0004	22.00
00013229	0.0004	1DT 0.003	1DT 0.019	0.002	< 0.0004	1DT 0.021	< 0.0003	19.00
00013230	0.0002	1DT 0.003	0.014	0.011	< 0.0004	0.016	0.0007	26.00
00013231	0.0002	1DT 0.003	0.025	0.015	< 0.0004	0.023	< 0.0005	24.40
00013232	< 0.0002	< 0.003	0.024	0.005	< 0.0004	0.017	< 0.0006	23.60
00013233	0.0002	1DT 0.002	0.016	0.016	< 0.0004	1DT 0.018	< 0.0005	47.80
00013234	****	****	****	****	****	****	****	62.60

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---------- REGION=NW STATION=EAR FALLS MIC TYPE A SITE NO.1 ----------

SAMPLE NUMBER	SUBMISSION NUMBER	LIS SAMPLE TYPE	PROJECT CODE	SUB PROJECT CODE	SAMPLE REMOVAL DATE	EXPOSURE DATE	SAMPLE END HR	SAMPLE START HR	PREC. TYPE	PREC. AT EXP	PREC. AT REM.	GAUGE TYPE	GAUGE DEPTH(MM)	EFFICIENCY %
00013612	AP02135	PR	02	01	JAN 27, 1987	DEC 30, 1986	0900	0915	2			9	3.8	105.37
00013614	AP02173	PR	02	01	FEB 24, 1987	JAN 27, 1987	0930	0900	2	1		2	16.4	58.78
00013615	AP02190	PR	02	01	MAR 24, 1987	FEB 24, 1987	0900	0930	1			2	29.2	54.64
00013616	AP02226	PR	02	01	APR 21, 1987	MAR 24, 1987	0900	0900	1			2	16.9	62.69
00013617	AP02243	PR	02	01	MAY 19, 1987	APR 21, 1987	1000	0900	1			2	19.5	20.22
00013618	AP02251	PR	02	01	JUN 16, 1987	MAY 19, 1987	0900	1000	1			2	90.0	84.63
00013619	AP02295	PR	02	01	JUL 16, 1987	JUN 16, 1987	1000	0900	1			3	70.0	106.30
00013620	AP02309	PR	02	01	AUG 11, 1987	JUL 16, 1987	0900	1000	1			3	57.0	77.38
00013623	AP02330	PR	02	01	SEP 8, 1987	AUG 11, 1987	0900	0900	1			2	39.8	147.50
00013624	AP02374	PR	02	01	OCT 6, 1987	SEP 8, 1987	0900	0900	1			2	11.7	148.21
00013625	AP02394	PR	02	01	NOV 3, 1987	OCT 6, 1987	0900	0900	1		1	2	28.9	56.91
00013626	AP02412	PR	02	01	DEC 1, 1987	NOV 3, 1987	0900	0900	2	1	1	2	20.0	77.31
00013627	AP02439	PR	02	01	DEC 29, 1987	DEC 1, 1987	0900	0900	2	1		2	38.0	37.20

SAMPLE NUMBER	FIELD COMMENTS	OFFICE COMMENTS	VOLUME ML	CONDUCT UMHO/CM		LAB.PH		ACIDITY.TFE	SULFATE MG/L		NITRATE MG/L		CALCIUM MG/L	
00013612	P		130	11.00		4.88		****	0.75		0.32		0.28	
00013614			313	14.00		4.62		****	1.25		0.39		0.14	
00013615	AFIJ	C	518	50.00		4.35		****	2.10		0.62		0.10	
00013616			344	43.56		4.07		****	4.10		0.64		0.44	
00013617		NH	128	24.85	UG	5.61		****	4.10	UG	1.11	UG	1.04	
00013618	CA	C	2473	6.57		6.45	D	****	0.65		0.12		0.14	
00013619	C	CZ	2416	8.00		5.25		****	0.60		0.14		<T	0.06
00013620	AC	Z	1432	8.00		5.25		****	0.95		0.21		0.18	
00013623		NH	1906	5.00		5.85	D	****	0.70		0.15		0.20	
00013624	C	NHM	563	7.00		5.81		****	1.25		0.18		D	0.48
00013625			534	9.00		5.08		****	1.15		0.26		<T	0.08
00013626	G		502	9.00		4.81		****	0.95		0.27		<T	0.10
00013627		N	459	13.00		4.55		****	1.10		0.34			0.18

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---------- REGION=NW STATION=EAR FALLS MIC TYPE A SITE NO.1 ----------

SAMPLE NUMBER	CHLORIDE MG/L	KJELDAHL MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE MG/L
00013612	0.33	<T 0.090	0.045	<T 0.010	0.225	<T 0.005	<W 0.002	0.006
00013614	0.19	0.310	<T 0.025	<T 0.015	0.095	0.230	<T 0.006	0.002
00013615	0.24	0.530	<T 0.010	<T 0.020	0.150	0.420	0.012	0.002
00013616	0.48	0.220	0.065	<T 0.005	0.385	0.140	0.018	0.009
00013617	D 0.33	UG 1.530	UG 0.210	0.055	B 0.275	UG 1.400	0.024	****
00013618	<T 0.05	0.510	<T 0.010	0.070	0.035	0.360	D 0.069	0.002
00013619	<T 0.02	0.160	<T 0.015	<T 0.025	<T 0.020	0.115	<T 0.002	0.002
00013620	<W 0.01	0.250	0.040	0.045	0.035	0.230	<T 0.005	0.003
00013623	<T 0.02	0.250	0.045	0.040	0.030	0.210	<T 0.004	0.002
00013624	0.12	0.320	D 0.125	D 0.140	B 0.280	LG 0.065	0.014	B 0.015
00013625	0.19	0.430	<T 0.020	0.065	0.110	0.330	<T 0.006	0.002
00013626	0.12	0.360	<T 0.005	<T 0.010	0.045	0.240	0.012	< 0.001
00013627	0.15	0.160	<T 0.020	<T 0.005	0.135	0.045	<T 0.008	0.002

SAMPLE NUMBER	NICKEL MG/L	ZINC MG/L	IRON MG/L	LEAD MG/L	VANADIUM MG/L	ALUMINUM MG/L	COPPER MG/L	ACIDITY GRAN UG/L
00013612	0.0002	1DT 0.024	UG 0.096	1DT 0.007	< 0.0004	0.124	UG 0.0125	37.50
00013614	0.0005	1DT 0.006	0.028	1DT 0.003	< 0.0004	1DT 0.033	1DT 0.0028	47.40
00013615	D 0.0008	1DT 0.008	0.022	0.004	< 0.0004	0.043	1DT 0.0025	71.30
00013616	0.0006	1DT 0.003	0.033	0.005	< 0.0004	0.120	0.0013	116.00
00013617	****	****	****	****	****	****	****	27.40
00013618	< 0.0002	1DT 0.001	0.006	< 0.001	< 0.0004	0.012	0.0005	21.10
00013619	0.0004	< 0.001	1DT 0.008	0.002	< 0.0004	1DT 0.011	< 0.0003	23.20
00013620	D 0.0007	1DT 0.002	0.023	1DT 0.002	< 0.0004	1DT 0.021	1DT 0.0002	25.00
00013623	0.0002	1DT 0.002	0.011	1DT 0.002	< 0.0004	1DT 0.015	1DT 0.0005	22.00
00013624	0.0002	B 0.015	0.033	0.026	< 0.0004	B 0.063	1DT 0.0004	31.00
00013625	< 0.0002	< 0.003	0.011	D 0.035	< 0.0004	1DT 0.013	1DT 0.0005	34.20
00013626	< 0.0002	< 0.003	1DT 0.005	1DT 0.038	< 0.0004	1DT 0.014	1DT 0.0006	38.80
00013627	0.0007	1DT 0.007	0.017	0.007	< 0.0004	1DT 0.018	0.0020	50.60

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---------- REGION=NW STATION=GERALDTON MIC TYPE A SITE NO. 1 ----------

SAMPLE NUMBER	SUBMISSION NUMBER	LIS SAMPLE TYPE	PROJECT CODE	SUB PROJECT CODE	SAMPLE REMOVAL DATE	EXPOSURE DATE	SAMPLE END HR	SAMPLE START HR	PREC. TYPE	PREC. AT EXP	PREC. AT REM.	GAUGE TYPE	GAUGE DEPTH(MM)	EFFICIENCY %
00013360	AP02135	PR	02	01	JAN 27, 1987	DEC 30, 1986	1630	1630	2		1	2	5.5	29.68
00013362	AP02173	PR	02	01	FEB 24, 1987	JAN 27, 1987	1540	1630	2			2	19.2	45.08
00013364	AP02190	PR	02	01	MAR 23, 1987	FEB 24, 1987	1940	1540	3			2	13.2	35.70
00013366	AP02226	PR	02	01	APR 21, 1987	MAR 23, 1987	1845	1940	1			2	14.2	46.85
00013368	AP02243	PR	02	01	MAY 19, 1987	APR 21, 1987	1300	1845	1			9	19.4	54.14
00013370	AP02251	PR	02	01	JUN 15, 1987	MAY 19, 1987	1522	1306	1			2	64.0	78.64
00013373	AP02295	PR	02	01	JUL 14, 1987	JUN 16, 1987	1340	1351	1	1	1	3	62.0	99.16
00013375	AP02309	PR	02	01	AUG 11, 1987	JUL 14, 1987	1600	1600	1			3	75.0	52.85
00013377	AP02330	PR	02	01	SEP 8, 1987	AUG 11, 1987	1220	1600	1			9	76.8	89.87
00013379	AP02374	PR	02	01	OCT 6, 1987	SEP 8, 1987	1235	1220	1			3	120.0	65.01
00013381	AP02394	PR	02	01	NOV 3, 1987	OCT 6, 1987	1203	1235	1			2	25.7	85.69
00013383	AP02412	PR	02	01	DEC 1, 1987	NOV 3, 1987	1440	1203	3		1	2	23.9	47.17
00013385	AP02439	PR	02	01	DEC 29, 1987	DEC 1, 1987	1650	1440	2			2	58.0	32.50

SAMPLE NUMBER	FIELD COMMENTS	OFFICE COMMENTS	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	ACIDITY.TFE	SULFATE MG/L		NITRATE MG/L		CALCIUM MG/L
00013360		N	53	20.00	4.52	****		1.55	0.41		0.26
00013362		N	281	11.00	4.77	****		0.65	0.35		0.26
00013364		NC	153	35.00	4.68	****		1.15	0.29		0.16
00013366	P		216	32.10	4.29	****		3.95	0.55		0.60
00013368	AQ		341	17.29	6.57	****	UG	2.80	0.54	UG	1.10
00013370	ACI		1634	10.73	4.72	****		1.00	0.16		0.10
00013373		C	1996	8.50	5.11	****		0.70	0.17	<T	0.06
00013375	C	HM	1287	10.50	4.79	****		1.05	0.22		0.28
00013377			2241	8.00	4.95	****		0.95	0.15		0.14
00013379	G	HM	2533	4.50	5.28	****		0.70	0.13		0.12
00013381			715	12.00	4.61	****		1.55	0.16	<T	0.08
00013383	G		366	10.00	4.69	****		1.05	0.25	<T	0.10
00013385		N	612	23.00	4.27	****		1.05	0.60		0.10

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SAMPLE NUMBER	CHLORIDE MG/L	KJELDAHL MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE MG/L
00013360	UG 0.83	!IS ****	0.035	<W 0.005	UG 0.680	<W 0.005	!IS ****	****
00013362	0.21	0.200	0.035	<T 0.010	0.135	0.050	<T 0.009	0.003
00013364	0.31	0.260	0.025	<W 0.005	0.230	0.070	0.020	0.002
00013366	0.25	0.690	0.055	<T 0.015	0.265	0.420	0.023	0.006
00013368	0.13	0.880	UG 0.205	0.175	0.115	0.610	0.025	UG 0.013
00013370	0.07	0.230	<T 0.010	0.035	<T 0.020	0.155	<W 0.002	0.002
00013373	<W 0.01	0.200	<T 0.010	0.025	0.035	0.180	<W 0.002	< 0.001
00013375	<W 0.01	0.250	0.040	0.030	<T 0.025	0.135	<T 0.007	0.004
00013377	0.07	0.160	<T 0.020	<T 0.020	<T 0.010	0.155	<W 0.002	0.001
00013379	<T 0.01	0.180	<T 0.025	0.025	0.025	0.245	<T 0.004	0.001
00013381	0.12	0.220	<T 0.015	<T 0.020	0.095	0.100	<T 0.009	< 0.001
00013383	0.16	0.250	<W 0.005	<W 0.005	0.075	0.180	0.012	< 0.001
00013385	0.09	0.110	<T 0.010	<W 0.005	0.065	<T 0.010	<T 0.006	< 0.001

SAMPLE NUMBER	NICKEL MG/L	ZINC MG/L	IRON MG/L	LEAD MG/L	VANADIUM MG/L	ALUMINUM MG/L	COPPER MG/L	ACIDITY GRAN UG/L
00013360	****	****	****	****	****	****	****	63.10
00013362	< 0.0002	1DT 0.006	0.022	< 0.005	< 0.0004	1DT 0.017	1DT 0.0008	39.50
00013364	< 0.0002	< 0.008	0.038	< 0.008	< 0.0004	1DT 0.076	1DT 0.0017	44.40
00013366	0.0004	1DT 0.004	0.027	0.007	0.0005	0.100	1DT 0.0030	79.00
00013368	0.0008	1DT 0.007	1DT 0.039	< 0.004	< 0.0004	UG 0.140	0.0019	21.20
00013370	< 0.0002	1DT 0.001	1DT 0.008	< 0.002	< 0.0004	0.018	1DT 0.0006	35.40
00013373	0.0003	< 0.002	1DT 0.007	1DT 0.002	< 0.0004	1DT 0.010	< 0.0003	28.50
00013375	0.0005	1DT 0.001	0.021	0.007	< 0.0004	1DT 0.024	1DT 0.0018	38.40
00013377	< 0.0002	1DT 0.002	0.015	< 0.001	< 0.0004	1DT 0.011	0.0010	31.40
00013379	0.0002	< 0.001	0.011	1DT 0.002	< 0.0004	1DT 0.007	1DT 0.0004	24.90
00013381	< 0.0002	< 0.002	0.009	0.016	0.0004	1DT 0.011	< 0.0005	UG 54.80
00013383	< 0.0002	< 0.004	1DT 0.007	UG 0.048	< 0.0004	1DT 0.019	< 0.0007	43.10
00013385	0.0009	< 0.003	0.020	0.009	< 0.0004	1DT 0.016	< 0.0005	82.60

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---------- REGION-NW STATION-LAC LA CROIX MIC TYPE A SITE NO.1 ----------

SAMPLE NUMBER	SUBMISSION NUMBER	LIS SAMPLE TYPE	PROJECT CODE	SUB PROJECT CODE	SAMPLE REMOVAL DATE	EXPOSURE DATE	SAMPLE END HR	SAMPLE START HR	PREC. TYPE	PREC. AT EXP	PREC. AT REM.	GAUGE TYPE	GAUGE DEPTH(MM)	EFFICIENCY %
00095099	AP02135	PR	02	01	JAN 27, 1987	DEC 30, 1986	0800	0800	2			2	2.0	261.80
00095100	AP02173	PR	02	01	FEB 27, 1987	JAN 27, 1987	1530	0800	3	1		2	23.0	60.13
00095102	AP02190	PR	02	01	MAR 24, 1987	FEB 27, 1987	1430	1530	1			2	18.0	79.40
00095103	AP02226	PR	02	01	APR 21, 1987	MAR 24, 1987	0800	1430	1			2	8.2	62.35
00095104	AP02295	PR	02	01	MAY 19, 1987	APR 21, 1987	0800	0800	1			3	15.2	191.49
00095105	AP02295	PR	02	01	JUN 16, 1987	MAY 19, 1987	0900	0800	1			3	123.0	67.43
00095106	AP02295	PR	02	01	JUL 14, 1987	JUN 16, 1987	0800	0900	1			3	46.0	90.86
00095107	AP02330	PR	02	01	AUG 11, 1987	JUL 14, 1987	0800	0800	1			9	156.9	51.22
00095108	AP02330	PR	02	01	SEP 8, 1987	AUG 11, 1987	0800	0800	1			9	120.3	51.41
00095109	AP02412	PR	02	01	OCT 6, 1987	SEP 8, 1987	1000	0800	3			9	45.4	101.69
00095110	AP02412	PR	02	01	NOV 3, 1987	OCT 6, 1987	0800	1000	3	1		2	14.4	83.42
00095111	AP02475	PR	02	01	DEC 10, 1987	NOV 3, 1987	0800	0800	2			2	15.1	79.96
00095112	AP02475	PR	02	01	DEC 29, 1987	DEC 10, 1987	0800	0800	2			2	7.4	8.32

SAMPLE NUMBER	FIELD COMMENTS	OFFICE COMMENTS	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	ACIDITY.TFE	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L
00095099	P		170	7.67	4.96	****	0.45	LG 0.16	0.12
00095100		Z	449	23.00	4.34	****	1.65	0.57	<T 0.10
00095102		CZ	464	22.00	4.09	****	3.90	0.59	0.14
00095103	C	HC	166	24.65	D 4.89	****	3.35	0.52	0.66
00095104		N	945	9.50	5.69	****	1.30	0.37	0.30
00095105			2693	8.00	5.22	****	0.95	0.23	0.14
00095106		H	1357	7.00	5.18	****	0.70	0.20	0.14
00095107		H	2609	8.50	5.62	****	1.30	0.22	0.22
00095108		H	2008	7.50	5.11	****	0.95	0.22	0.22
00095109			1499	7.00	4.86	****	0.80	LG 0.08	<T 0.08
00095110	CQ		390	7.00	6.15	****	1.25	0.30	0.66
00095111		Z	392	24.00	4.35	****	2.60	0.55	0.38
00095112	G	XZ	20	****	****	****	****	****	****

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SAMPLE NUMBER	CHLORIDE	KJELDAHL	MAGNESIUM	POTASSIUM	SODIUM	AMMONIUM	PHOSPHOR	MANGANESE
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
00095099	0.28	0.100	<T 0.010	<W 0.005	0.190	<T 0.005	<W 0.002	0.001
00095100	0.15	0.360	<T 0.015	<W 0.005	0.085	0.265	<T 0.007	0.001
00095102	0.21	0.470	<T 0.025	<T 0.020	0.095	0.320	0.010	0.003
00095103	0.30	!IS ****	0.070	0.075	0.345	0.510	!IS ****	0.010
00095104	0.12	0.640	0.055	0.060	0.055	0.455	0.010	0.008
00095105	D 0.19	0.350	0.025	0.040	0.050	0.310	<T 0.003	0.002
00095106	<W 0.01	0.290	0.025	<T 0.010	0.030	0.215	<T 0.004	0.002
00095107	0.14	0.470	0.035	D 0.140	D 0.080	0.390	<T 0.006	0.005
00095108	0.06	0.290	0.030	D 0.065	0.035	0.240	<T 0.004	0.003
00095109	<T 0.02	0.110	<T 0.010	<W 0.005	<T 0.020	LG 0.065	<W 0.002	< 0.001
00095110	0.23	0.230	0.135	0.115	UG 0.220	LG 0.040	0.011	0.006
00095111	0.16	0.550	0.040	0.025	0.110	0.370	0.011	0.003
00095112	****	****	****	****	****	****	****	****

SAMPLE NUMBER	NICKEL	ZINC	IRON	LEAD	VANADIUM	ALUMINUM	COPPER	ACIDITY GRAN
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L
00095099	< 0.0002	1DT 0.011	0.021	< 0.007	< 0.0004	0.073	< 0.0014	32.10
00095100	0.0002	1DT 0.004	0.015	1DT 0.002	< 0.0004	1DT 0.024	1DT 0.0008	74.20
00095102	< 0.0002	< 0.003	0.018	< 0.003	< 0.0004	0.081	0.0023	112.00
00095103	0.0004	1DT 0.009	0.069	0.009	< 0.0004	UG 0.150	1DT 0.0016	39.70
00095104	D 0.0030	< 0.002	0.026	< 0.002	D 0.0005	1DT 0.028	< 0.0004	22.00
00095105	0.0003	< 0.001	1DT 0.012	1DT 0.002	D 0.0005	1DT 0.013	< 0.0003	24.90
00095106	0.0003	< 0.002	0.013	1DT 0.002	D 0.0005	1DT 0.015	< 0.0003	28.90
00095107	0.0005	B 0.022	0.031	L 0.027	< 0.0004	1DT 0.028	B 0.0057	24.60
00095108	D 0.0005	D 0.013	0.035	0.005	< 0.0004	1DT 0.027	D 0.0032	29.20
00095109	< 0.0002	< 0.002	0.006	1DT 0.018	< 0.0004	< 0.008	< 0.0003	36.40
00095110	< 0.0002	< 0.004	0.049	0.016	< 0.0004	0.039	< 0.0007	19.70
00095111	< 0.0002	< 0.004	0.017	0.009	< 0.0004	1DT 0.022	1DT 0.0024	67.30
00095112	****	****	****	****	****	****	****	****

ONTARIO MINISTRY OF THE ENVIRONMENT
AP10S - ACIDIC PRECIPITATION IN ONTARIO STUDY
DATA LISTING
CUMULATIVE SAMPLING ANALYSIS RESULTS

---------- REGION-NW STATION-OTTER ISLAND MIC TYPE A SITE NO.1 ----------

SAMPLE NUMBER	SUBMISSION NUMBER	LIS SAMPLE TYPE	PROJECT CODE	SUB PROJECT CODE	SAMPLE REMOVAL DATE	EXPOSURE DATE	SAMPLE END HR	SAMPLE START HR	PREC. TYPE	PREC. AT EXP	PREC. AT REM.	GAUGE TYPE	GAUGE DEPTH(MM)	EFFICIENCY %
00031026	AP02251	PR	02	01	MAY 19, 1987	APR 21, 1987	0900	1400	1			2	31.0	16.10
00031027	AP02251	PR	02	01	JUN 16, 1987	MAY 19, 1987	0900	0900	1			2	59.0	96.26
00031028	AP02295	PR	02	01	JUL 14, 1987	JUN 16, 1987	0900	0900	1			9	74.1	83.55
00031029	AP02295	PR	02	01	AUG 11, 1987	JUL 14, 1987	0900	0900	1			1	131.0	29.48
00031030	AP02330	PR	02	01	SEP 8, 1987	AUG 11, 1987	0900	0900	1			9	72.6	110.98
00031031	AP02394	PR	02	01	OCT 6, 1987	SEP 8, 1987	0900	0900	3			9	64.7	39.70
00031032	AP02394	PR	02	01	NOV 2, 1987	OCT 6, 1987	0900	0900	3			9	37.1	83.43

SAMPLE NUMBER	FIELD COMMENTS	OFFICE COMMENTS	VOLUME ML	CONDUCT UMHO/CM		LAB.PH	ACIDITY.TFE	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L	
00031026		NHM	162	11.24	UG	5.94	****	1.65	0.30		0.42
00031027	CDG	HM	1844	28.10		4.24	****	3.15	0.38	D	0.26
00031028	DP		2010	13.00		4.70	****	1.55	0.27		0.18
00031029	PCD		1254	21.00		4.64	****	2.20	0.38		0.30
00031030			2616	21.00		4.53	****	2.50	0.38		0.38
00031031	ACP		834	7.00	LG	5.13	****	1.30	0.19		0.24
00031032	PC		1005	21.00		4.56	****	2.55	0.50		0.40

ONTARIO MINISTRY OF THE ENVIRONMENT
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
DATA LISTING
CUMULATIVE SAMPLING ANALYSIS RESULTS

---------- REGION-NW STATION-OTTER ISLAND MIC TYPE A SITE NO.1 ----------

SAMPLE NUMBER	CHLORIDE MG/L	KJELDAHL MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE MG/L
00031026	<T 0.02	!IS ****	0.085	0.105	0.060	0.540	!IS ****	0.014
00031027	<T 0.02	0.360	0.045	0.045	0.040	0.530	<W 0.002	0.002
00031028	0.09	0.340	0.030	<T 0.010	0.030	0.340	<W 0.002	< 0.001
00031029	0.09	0.430	0.040	0.025	0.030	0.420	<T 0.003	D 0.006
00031030	0.07	0.380	0.060	0.025	<T 0.010	0.380	<T 0.003	0.003
00031031	D 0.06	0.250	0.045	0.045	0.060	0.170	<T 0.004	0.008
00031032	0.09	0.490	0.070	0.035	0.035	0.435	<T 0.005	0.004

SAMPLE NUMBER	NICKEL MG/L	ZINC MG/L	IRON MG/L	LEAD MG/L	VANADIUM MG/L	ALUMINUM MG/L	COPPER MG/L	ACIDITY GRAN UG/L
00031026	0.0002	1DT 0.015	UG 0.146	1DT 0.004	D 0.0006	UG 0.180	0.0038	LG 20.60
00031027	< 0.0002	1DT 0.002	0.009	D 0.003	< 0.0004	0.016	0.0010	72.80
00031028	0.0005	< 0.001	0.011	1DT 0.002	< 0.0004	1DT 0.009	< 0.0003	44.10
00031029	0.0005	< 0.002	0.020	1DT 0.005	< 0.0004	1DT 0.024	< 0.0004	47.70
00031030	0.0002	0.002	0.017	1DT 0.002	< 0.0004	0.016	0.0005	54.40
00031031	0.0002	< 0.002	0.021	0.007	< 0.0004	1DT 0.014	0.0018	33.00
00031032	< 0.0002	1DT 0.013	0.019	0.007	< 0.0004	0.014	1DT 0.0031	57.30

ONTARIO MINISTRY OF THE ENVIRONMENT
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
DATA LISTING
CUMULATIVE SAMPLING ANALYSIS RESULTS

---------- REGION=NW STATION=PICKLE LAKE MIC TYPE A SITE NO.1 ----------

SAMPLE NUMBER	SUBMISSION NUMBER	LIS SAMPLE TYPE	PROJECT CODE	SUB PROJECT CODE	SAMPLE REMOVAL DATE	EXPOSURE DATE	SAMPLE END HR	SAMPLE START HR	PREC. TYPE	PREC. AT EXP	PREC. AT REM.	GAUGE TYPE	GAUGE DEPTH(MM)	EFFICIENCY %
00013853	AP02135	PR	02	01	JAN 27, 1987	DEC 30, 1986	1330	1030	2			2	18.7	24.87
00013854	AP02173	PR	02	01	FEB 24, 1987	JAN 27, 1987	1500	1330	2	1		2	20.9	6.34
00013855	AP02190	PR	02	01	MAR 25, 1987	FEB 24, 1987	1500	1500	2		1	2	13.5	54.53
00013856	AP02226	PR	02	01	APR 21, 1987	MAR 25, 1987	1530	1500	3			2	12.5	0.49
00013857	AP02243	PR	02	01	MAY 19, 1987	APR 21, 1987	1400	1530	1			2	38.7	76.96
00013858	AP02251	PR	02	01	JUN 17, 1987	MAY 19, 1987	1430	1400	1			2	83.0	89.58
00013861	AP02295	PR	02	01	JUL 14, 1987	JUN 17, 1987	1400	1430	1			3	55.0	131.54
00013862	AP02309	PR	02	01	AUG 11, 1987	JUL 14, 1987	1450	1430	1			9	88.9	78.82
00013863	AP02330	PR	02	01	SEP 8, 1987	AUG 11, 1987	0930	1450	1			9	92.4	89.47
00013864	AP02374	PR	02	01	OCT 6, 1987	SEP 8, 1987	1430	0930	1		1	3	80.2	71.20
00013865	AP02394	PR	02	01	NOV 3, 1987	OCT 6, 1987	1430	1430	3			2	14.5	81.99
00013866	AP02412	PR	02	01	DEC 1, 1987	NOV 3, 1987	1215	1430	2		1	2	25.3	2.19
00013867	AP02439	PR	02	01	DEC 29, 1987	DEC 1, 1987	1045	1215	2	1		2	33.0	49.65

SAMPLE NUMBER	FIELD COMMENTS	OFFICE COMMENTS	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	ACIDITY.TFE	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L
00013853	C	N	151	15.10	5.02	****	1.65	0.58	UG 0.84
00013854	FJ		43	!IS ****	!IS ****	****	!IS ****	!IS ****	!RE ****
00013855	FI	C	239	8.00	4.35	****	1.25	0.54	0.12
00013856	GE		2	****	****	****	****	****	****
00013857	AC	HM	967	9.18	5.51	****	1.30	0.23	0.42
00013858	CA	HC	2414	7.15	5.27	****	0.65	0.10	0.16
00013861	ACQ	NC	2349	4.50	5.30	****	LG 0.30	LG 0.08	<T 0.04
00013862			2275	6.00	5.41	****	0.75	0.16	0.14
00013863			2684	4.50	5.27	****	0.50	0.10	<T 0.06
00013864			1854	LG 3.00	5.72	****	0.55	LG 0.08	0.14
00013865			366	7.50	5.08	****	1.10	0.18	0.18
00013866	G		18	!NR ****	!NR ****	****	!NR ****	!NR ****	!NR ****
00013867		N	532	9.00	4.70	****	0.50	0.26	<T 0.08

ONTARIO MINISTRY OF THE ENVIRONMENT
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
DATA LISTING
CUMULATIVE SAMPLING ANALYSIS RESULTS

---------- REGION=NW STATION=PICKLE LAKE MIC TYPE A SITE NO.1 ----------

SAMPLE NUMBER	CHLORIDE	KJELDAHL	MAGNESIUM	POTASSIUM	SODIUM	AMMONIUM	PHOSPHOR	MANGANESE
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
00013853	0.46	0.360	UG 0.180	<T 0.020	0.400	0.110	D 0.011	0.007
00013854	!IS ****	!IS ****	!RE ****	!RE ****	!RE ****	!SM ****	!IS ****	!IS ****
00013855	0.46	0.300	0.025	D 0.105	0.250	0.040	0.011	0.002
00013856	****	****	****	****	****	****	****	****
00013857	<T 0.05	0.370	0.075	0.045	0.065	0.275	<T 0.008	0.006
00013858	<T 0.05	0.250	0.035	0.035	<T 0.020	0.105	0.025	0.001
00013861	<W 0.01	<T 0.090	<T 0.010	<T 0.010	<T 0.010	LG 0.045	<T 0.002	< 0.001
00013862	<W 0.01	0.230	0.035	0.030	<T 0.015	0.185	<T 0.006	0.003
00013863	<W 0.01	0.110	<T 0.010	0.025	0.035	0.090	<T 0.003	0.001
00013864	<T 0.01	0.130	0.035	<T 0.015	0.035	0.095	<T 0.006	0.003
00013865	0.25	0.300	0.040	<T 0.020	0.165	0.205	<T 0.007	0.001
00013866	!NR ****	!NR ****	!NR ****	!NR ****	!NR ****	!NR ****	!NR ****	****
00013867	0.11	<T 0.070	<T 0.005	<W 0.005	0.085	<T 0.005	<T 0.009	< 0.001

SAMPLE NUMBER	NICKEL	ZINC	IRON	LEAD	VANADIUM	ALUMINUM	COPPER	ACIDITY GRAN
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L
00013853	< 0.0002	0.017	0.071	< 0.009	0.0004	L 0.048	0.0019	33.10
00013854	!IS ****	!IS ****	!IS ****	!IS ****	!IS ****	!IS ****	!IS ****	!IS ****
00013855	< 0.0002	1DT 0.010	0.026	1DT 0.003	< 0.0004	1DT 0.046	1DT 0.0031	67.50
00013856	****	****	****	****	****	****	****	****
00013857	< 0.0004	< 0.002	1DT 0.004	1DT 0.002	< 0.0004	0.028	1DT 0.0005	25.90
00013858	< 0.0002	1DT 0.003	1DT 0.008	1DT 0.001	< 0.0004	0.017	0.0007	25.60
00013861	0.0004	1DT 0.001	1DT 0.006	1DT 0.001	< 0.0004	1DT 0.009	< 0.0003	22.00
00013862	0.0005	1DT 0.001	1DT 0.015	1DT 0.001	< 0.0004	1DT 0.017	< 0.0003	21.90
00013863	< 0.0002	1DT 0.002	0.009	0.007	< 0.0004	1DT 0.008	1DT 0.0002	25.20
00013864	< 0.0002	< 0.002	0.010	0.007	< 0.0004	1DT 0.015	1DT 0.0004	20.40
00013865	0.0002	< 0.004	0.013	0.006	< 0.0004	1DT 0.018	1DT 0.0008	32.80
00013866	****	****	****	****	****	****	****	!NR ****
00013867	< 0.0002	< 0.003	0.014	0.010	< 0.0004	1DT 0.017	0.0027	42.60

ONTARIO MINISTRY OF THE ENVIRONMENT
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
DATA LISTING
CUMULATIVE SAMPLING ANALYSIS RESULTS

---------- REGION=NW STATION=QUETICO CENTRE MIC TYPE A SITE NO.1 ----------

SAMPLE NUMBER	SUBMISSION NUMBER	LIS SAMPLE TYPE	PROJECT CODE	SUB PROJECT CODE	SAMPLE REMOVAL DATE	EXPOSURE DATE	SAMPLE END HR	SAMPLE START HR	PREC. TYPE	PREC. AT EXP	PREC. AT REM.	GAUGE TYPE	GAUGE DEPTH(MM)	EFFICIENCY %
00095301	AP02135	PR	02	01	JAN 27, 1987	DEC 30, 1986	0900	0900	2			9	15.7	44.53
00095302	AP02173	PR	02	01	FEB 24, 1987	JAN 27, 1987	0900	0900	2			2	29.8	51.57
00095303	AP02190	PR	02	01	MAR 24, 1987	FEB 24, 1987	0900	0900	3			2	14.1	68.37
00095304	AP02226	PR	02	01	APR 21, 1987	MAR 24, 1987	0900	0900	3			2	2.9	82.84
00095305	AP02243	PR	02	01	MAY 19, 1987	APR 21, 1987	0900	0900	1			2	25.6	92.76
00095306	AP02251	PR	02	01	JUN 16, 1987	MAY 19, 1987	0900	0900	1			2	80.0	85.85
00095307	AP02295	PR	02	01	JUL 14, 1987	JUN 16, 1987	0900	0900	1			3	48.0	46.39
00095308	AP02309	PR	02	01	AUG 11, 1987	JUL 14, 1987	0900	0900	1			3	122.0	95.25
00095309	AP02330	PR	02	01	SEP 8, 1987	AUG 11, 1987	0900	0900	1			9	131.3	104.25
00095310	AP02374	PR	02	01	OCT 6, 1987	SEP 8, 1987	0900	0900	1			3	32.4	139.93
00095312	AP02394	PR	02	01	NOV 3, 1987	OCT 6, 1987	0900	0900	3			2	40.7	63.42
00095313	AP02412	PR	02	01	DEC 1, 1987	NOV 3, 1987	0900	0900	2		1	2	19.7	88.65
00095314	AP02439	PR	02	01	DEC 29, 1987	DEC 1, 1987	0900	0900	2			2	14.0	60.28

SAMPLE NUMBER	FIELD COMMENTS	OFFICE COMMENTS	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	ACIDITY.TFE	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L
00095301	P		227	10.60	4.77	****	0.65	0.29	0.14
00095302			499	25.00	4.31	****	1.80	0.77	0.26
00095303			313	36.00	4.08	****	3.80	0.57	0.18
00095304			78	33.24	4.33	****	4.10	0.73	B 1.06
00095305	AQC	H	771	10.80	6.31	****	1.40	0.35	0.44
00095306		HM	2230	11.24	4.69	****	1.05	0.19	0.18
00095307	G	HC	723	12.00	4.94	****	0.95	0.24	0.16
00095308	IM		3773	7.50	5.19	****	0.95	0.21	0.16
00095309			4444	7.00	5.05	****	0.90	0.16	0.14
00095310		NHCM	1472	6.00	4.95	****	1.25	0.19	0.22
00095312		H	838	8.50	6.55	****	1.70	0.35	0.72
00095313	CD		567	20.00	4.41	****	2.25	0.43	0.24
00095314		M	274	13.00	4.72	****	1.05	0.35	0.20

ONTARIO MINISTRY OF THE ENVIRONMENT
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
DATA LISTING
CUMULATIVE SAMPLING ANALYSIS RESULTS

---------- REGION=NW STATION=QUETICO CENTRE MIC TYPE A SITE NO.1 ----------

SAMPLE NUMBER	CHLORIDE MG/L	KJELDAHL MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE MG/L
00095301	0.17	0.150	<T 0.015	<W 0.005	0.095	0.090	<W 0.002	0.002
00095302	0.22	0.460	0.045	0.030	0.115	0.360	<T 0.007	0.004
00095303	0.24	0.430	0.040	<T 0.005	0.115	0.260	<T 0.005	D 0.008
00095304	UG 0.70	!IS ****	D 0.115	0.060	D 0.620	0.200	!IS ****	****
00095305	0.11	0.860	0.070	0.115	0.095	0.540	0.047	0.004
00095306	<T 0.03	0.200	0.030	0.055	0.065	0.130	<W 0.002	0.002
00095307	<W 0.01	0.280	0.030	D 0.065	0.075	0.210	<T 0.005	0.002
00095308	<W 0.01	0.280	0.035	0.025	<T 0.020	0.230	<T 0.004	0.003
00095309	<T 0.02	0.230	<T 0.020	<T 0.025	<W 0.005	0.200	<T 0.004	0.002
00095310	0.09	0.180	0.045	<T 0.015	<T 0.025	0.100	<T 0.008	0.001
00095312	0.14	0.420	0.170	0.070	0.075	0.240	0.011	0.002
00095313	0.09	0.470	<T 0.025	<T 0.020	0.060	0.375	<T 0.005	0.001
00095314	0.17	0.160	0.030	<T 0.010	0.185	<T 0.015	0.013	D 0.004

SAMPLE NUMBER	NICKEL MG/L	ZINC MG/L	IRON MG/L	LEAD MG/L	VANADIUM MG/L	ALUMINUM MG/L	COPPER MG/L	ACIDITY GRAN UG/L
00095301	< 0.0002	1DT 0.010	0.026	< 0.005	< 0.0004	0.049	< 0.0011	38.00
00095302	0.0002	1DT 0.007	0.018	1DT 0.003	< 0.0004	1DT 0.025	1DT 0.0082	69.60
00095303	< 0.0002	1DT 0.005	0.032	1DT 0.003	< 0.0004	0.054	1DT 0.0012	113.00
00095304	****	****	****	****	****	****	****	77.20
00095305	< 0.0004	1DT 0.002	0.005	< 0.002	< 0.0004	UG 0.076	0.0007	25.70
00095306	< 0.0002	< 0.001	1DT 0.012	< 0.001	< 0.0004	UG 0.048	0.0007	39.20
00095307	0.0004	< 0.002	0.026	1DT 0.002	< 0.0004	1DT 0.038	< 0.0005	36.40
00095308	0.0004	1DT 0.002	0.013	1DT 0.004	< 0.0004	1DT 0.013	< 0.0003	24.70
00095309	< 0.0002	1DT 0.001	D 0.093	0.004	< 0.0004	1DT 0.010	1DT 0.0003	29.50
00095310	< 0.0002	1DT 0.007	0.006	1DT 0.015	< 0.0004	< 0.008	1DT 0.0010	31.80
00095312	< 0.0002	< 0.002	0.054	0.008	< 0.0004	1DT 0.036	1DT 0.0016	19.70
00095313	< 0.0002	1DT 0.005	D 0.045	1DT 0.002	< 0.0004	1DT 0.019	1DT 0.0006	65.60
00095314	< 0.0002	< 0.005	0.038	D 0.021	< 0.0004	1DT 0.038	0.0037	49.00

PART VI

SOUTHEASTERN REGION CUMULATIVE AMBIENT AIR CONCENTRATION RESULTS

ONTARIO MINISTRY OF THE ENVIRONMENT
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
DATA LISTING
CUMULATIVE SAMPLING ANALYSIS RESULTS

---------- REGION=SE STATION=CLOYNE MIC TYPE A SITE NO.1 ----------

SAMPLE NUMBER	SUBMISSION NUMBER	LIS SAMPLE TYPE	PROJECT CODE	SUB PROJECT CODE	SAMPLE REMOVAL DATE	EXPOSURE DATE	SAMPLE END HR	SAMPLE START HR	PREC. TYPE	PREC. AT EXP	PREC. AT REM.	GAUGE TYPE	GAUGE DEPTH(MM)	EFFICIENCY %
00024586	AP02121	PR	02	01	JAN 27, 1987	DEC 30, 1986	1245	1100	3			2	35.0	74.89
00024594	AP02167	PR	02	01	FEB 24, 1987	JAN 27, 1987	0800	1400	2			2	4.7	341.42
00024609	AP02203	PR	02	01	MAR 24, 1987	FEB 24, 1987	1100	0800	3			3	25.0	74.41
00024615	AP02457		02	01	APR 24, 1987	MAR 24, 1987	1600	1100	1			*	106.8	.
00024619	AP02457	PR	02	01	MAY 19, 1987	APR 24, 1987	1815	1600	1			3	57.0	97.70
00024632	AP02255	PR	02	01	JUN 16, 1987	MAY 19, 1987	1700	1845	1			2	80.0	92.82
00069014	AP02374	PR	02	01	JUL 16, 1987	JUN 16, 1987	2000	1700	1			0	120.0	90.19
00069016	AP02374	PR	02	01	AUG 12, 1987	JUL 16, 1987	1000	2000	1			0	72.0	.
00069027	AP02374	PR	02	01	SEP 8, 1987	AUG 12, 1987	1230	1000	1			0	42.0	.
00094393	AP02457	PR	02	01	NOV 3, 1987	SEP 8, 1987	0900	1230	1			0	82.3	193.34
00094382	AP02457	PR	02	01	DEC 1, 1987	NOV 3, 1987	1530	0900	1		1	0	106.7	77.58
00094449	AP02548	PR	02	01	DEC 29, 1987	DEC 1, 1987	1800	1530	3			2	46.0	81.95

SAMPLE NUMBER	FIELD COMMENTS	OFFICE COMMENTS	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	ACIDITY.TFE	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L
00024586	G		851	31.00	4.22	****	1.50	0.74	0.18
00024594	G		521	34.00	4.20	****	1.85	0.93	0.26
00024609			604	LG 8.00	UG 4.86	****	1.10	LG 0.01	<T 0.06
00024615	QE	Z	****	****	****	****	****	****	****
00024619	C	Z	1808	38.50	4.25	****	5.25	0.88	0.74
00024632			2411	38.15	4.08	****	4.15	0.60	0.26
00069014		MZ	3514	32.00	4.30	****	3.50	0.50	0.14
00069016	GE		****	****	****	****	****	****	****
00069027	GE		****	****	****	****	****	****	****
00094393	Q	Z	5165	36.50	4.15	****	3.60	0.70	0.50
00094382			2688	14.50	4.53	****	1.40	0.31	<T 0.08
00094449			1224	30.00	4.27	****	2.00	0.56	0.14

ONTARIO MINISTRY OF THE ENVIRONMENT
AP10S - ACIDIC PRECIPITATION IN ONTARIO STUDY
DATA LISTING
CUMULATIVE SAMPLING ANALYSIS RESULTS

---------- REGION-SE STATION-CLOYNE MIC TYPE A SITE NO.1 ----------

SAMPLE NUMBER	CHLORIDE MG/L	KJELDAHL MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE MG/L
00024586	0.42	0.270	<T 0.020	<T 0.015	D 0.310	0.185	<T 0.009	0.007
00024594	0.60	0.530	0.025	0.065	0.410	0.300	<T 0.005	0.003
00024609	0.43	0.410	<T 0.010	D 0.050	0.310	LG 0.050	0.022	0.002
00024615	****	****	****	****	****	****	****	****
00024619	0.19	1.170	0.120	0.090	0.050	0.900	0.025	UG 0.014
00024632	0.15	0.610	0.115	0.035	0.040	0.575	<W 0.002	0.004
00069014	0.19	0.410	0.050	0.025	<T 0.020	0.350	<T 0.003	****
00069016	****	****	****	****	****	****	****	****
00069027	****	****	****	****	****	****	****	****
00094393	0.39	0.470	0.050	0.040	0.040	0.400	0.010	0.003
00094382	0.13	0.190	<T 0.015	<T 0.010	0.060	0.170	<W 0.002	< 0.001
00094449	0.37	0.320	<T 0.020	D 0.030	0.215	0.200	<T 0.003	0.001

SAMPLE NUMBER	NICKEL MG/L	ZINC MG/L	IRON MG/L	LEAD MG/L	VANADIUM MG/L	ALUMINUM MG/L	COPPER MG/L	ACIDITY GRAN UG/L
00024586	0.0002	1DT 0.009	D 0.061	1DT 0.004	< 0.0004	0.033	0.0019	86.40
00024594	< 0.0002	1DT 0.009	0.036	0.007	0.0004	1DT 0.031	1DT 0.0016	88.30
00024609	0.0014	1DT 0.010	0.015	< 0.003	< 0.0004	1DT 0.019	0.0020	38.60
00024615	****	****	****	****	****	****	****	****
00024619	0.0004	1DT 0.005	0.042	0.010	< 0.0004	0.036	0.0007	96.50
00024632	< 0.0002	1DT 0.004	0.023	0.001	< 0.0004	0.035	0.0007	96.10
00069014	****	****	****	****	****	****	****	90.30
00069016	****	****	****	****	****	****	****	****
00069027	****	****	****	****	****	****	****	****
00094393	< 0.0002	1DT 0.002	0.013	1DT 0.001	< 0.0004	0.008	1DT 0.0003	96.50
00094382	< 0.0002	< 0.001	0.010	1DT 0.005	< 0.0004	< 0.007	< 0.0003	51.60
00094449	0.0009	1DT 0.014	0.028	< 0.002	< 0.0004	1DT 0.016	< 0.0004	78.90

ONTARIO MINISTRY OF THE ENVIRONMENT
AP10S - ACIDIC PRECIPITATION IN ONTARIO STUDY
DATA LISTING
CUMULATIVE SAMPLING ANALYSIS RESULTS

---------- REGION=SE STATION=DALHOUSIE MILLS MIC TYPE A SITE NO.1 ----------

SAMPLE NUMBER	SUBMISSION NUMBER	LIS SAMPLE TYPE	PROJECT CODE	SUB PROJECT CODE	SAMPLE REMOVAL DATE	EXPOSURE DATE	SAMPLE END HR	SAMPLE START HR	PREC. TYPE	PREC. AT EXP	PREC. AT REM.	GAUGE TYPE	GAUGE DEPTH(MM)	EFFICIENCY %
00024585	AP02121	PR	02	01	JAN 27, 1987	DEC 30, 1986	0830	0900	3			2	28.0	46.20
00024593	AP02167	PR	02	01	FEB 24, 1987	JAN 27, 1987	0800	0900	2			9	46.7	18.86
00024603	AP02203	PR	02	01	MAR 24, 1987	FEB 24, 1987	0800	0900	3			3	27.0	32.17
00024604	AP02203	PR	02	01	APR 21, 1987	MAR 24, 1987	0800	0900	3			3	38.0	33.88
00024613	AP02457	PR	02	01	MAY 17, 1987	APR 21, 1987	0800	0800	1			2	56.0	88.22
00094389	AP02457	PR	02	01	JUN 16, 1987	MAY 17, 1987	0800	0800	1			3	79.0	128.50
00069010	AP02374	PR	02	01	JUL 14, 1987	JUN 16, 1987	1800	0900	1		1	0	90.0	91.99
00069017	AP02374	PR	02	01	AUG 12, 1987	JUL 14, 1987	0800	1900	1			0	88.0	92.22
00069026	AP02374	PR	02	01	SEP 8, 1987	AUG 12, 1987	1800	0900	1		1	0	42.0	78.32
00106120	AP03182		02	01	OCT 6, 1987	SEP 8, 1987	0900	1800	1			*	103.9	.
00094385	AP02457	PR	02	01	NOV 3, 1987	OCT 6, 1987	0900	0900	1		1	3	55.0	87.81
00094384	AP02457	PR	02	01	DEC 1, 1987	NOV 3, 1987	0800	0900	1	1		9	91.2	84.94
00094375	AP02457	PR	02	01	DEC 29, 1987	DEC 1, 1987	0800	0900	3			2	46.0	56.71

SAMPLE NUMBER	FIELD COMMENTS	OFFICE COMMENTS	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	ACIDITY.TFE	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L
00024585		N	420	35.60	4.23	****	1.85	1.12	0.36
00024593	G		286	46.50	4.06	****	2.40	1.32	0.52
00024603	AD	N	282	14.00	UG 6.81	****	1.65	0.41	0.32
00024604		N	418	18.00	4.45	****	2.10	0.46	0.26
00024613	AC	Z	1604	35.50	4.34	****	5.15	0.88	0.76
00094389		NZ	3296	24.00	4.31	****	2.80	0.35	0.16
00069010			2688	47.00	4.13	****	5.30	0.51	0.20
00069017			2635	26.50	4.44	****	3.75	0.31	0.16
00069026		CM	1068	35.00	4.01	****	6.35	0.74	0.22
00106120	EF		****	****	****	****	****	****	****
00094385			1568	36.50	4.15	****	2.75	0.96	0.28
00094384	P		2515	15.50	4.52	****	1.40	0.34	0.12
00094375			847	35.50	4.13	****	2.40	0.90	0.32

ONTARIO MINISTRY OF THE ENVIRONMENT
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
DATA LISTING
CUMULATIVE SAMPLING ANALYSIS RESULTS

---------- REGION=SE STATION=DALHOUSIE MILLS MIC TYPE A SITE NO.1 ----------

SAMPLE NUMBER	CHLORIDE	KJELDAHL	MAGNESIUM	POTASSIUM	SODIUM	AMMONIUM	PHOSPHOR	MANGANESE
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
00024585	0.66	0.600	UG 0.520	<T 0.015	0.240	0.130	0.018	D 0.013
00024593	0.58	0.740	D 0.165	D 0.025	0.310	0.335	0.015	D 0.009
00024603	UG 0.87	1.100	UG 0.535	0.085	0.445	0.370	0.046	D 0.004
00024604	0.46	!IS ****	D 0.170	0.030	0.185	0.310	!IS ****	D 0.004
00024613	0.23	1.090	0.125	0.110	UG 0.110	0.920	0.030	UG 0.014
00094389	0.06	0.350	<T 0.015	<T 0.010	<T 0.015	0.320	<T 0.004	0.004
00069010	0.07	0.570	0.030	0.030	0.025	0.475	<T 0.007	0.002
00069017	0.14	0.540	0.035	D 0.065	<T 0.015	0.500	<T 0.007	0.001
00069026	0.21	0.560	0.035	<T 0.010	0.035	0.470	<T 0.003	B 0.008
00106120	****	****	****	****	****	****	****	****
00094385	0.13	0.540	0.040	0.025	0.030	0.500	<T 0.006	0.003
00094384	0.11	0.260	<T 0.015	<T 0.010	0.050	0.240	<W 0.002	D 0.003
00094375	0.30	0.320	0.040	<T 0.015	0.155	0.220	<T 0.005	D 0.012

SAMPLE NUMBER	NICKEL	ZINC	IRON	LEAD	VANADIUM	ALUMINUM	COPPER	ACIDITY GRAN
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L
00024585	0.0005	1DT 0.012	0.039	1DT 0.006	D 0.0007	0.065	UG 0.0134	90.20
00024593	< 0.0002	1DT 0.011	0.036	1DT 0.010	0.0008	D 0.075	1DT 0.0024	115.00
00024603	0.0004	1DT 0.005	0.026	< 0.005	< 0.0004	0.042	D 0.0037	LG 16.70
00024604	< 0.0002	1DT 0.006	D 0.042	1DT 0.014	0.0004	B 0.118	1DT 0.0008	61.30
00024613	0.0003	1DT 0.010	0.023	1DT 0.003	< 0.0004	0.047	0.0006	84.60
00094389	< 0.0002	1DT 0.004	1DT 0.007	0.005	< 0.0004	< 0.007	< 0.0003	74.30
00069010	0.0004	0.005	0.025	1DT 0.003	< 0.0004	0.021	0.0006	118.00
00069017	0.0004	1DT 0.003	0.015	1DT 0.013	< 0.0004	1DT 0.007	1DT 0.0004	69.40
00069026	0.0007	0.012	0.028	0.021	< 0.0004	0.046	1DT 0.0013	UG 158.00
00106120	****	****	****	****	****	****	****	****
00094385	< 0.0002	0.011	0.018	1DT 0.004	< 0.0004	1DT 0.056	1DT 0.0006	101.00
00094384	< 0.0002	1DT 0.002	0.007	0.003	< 0.0004	< 0.007	< 0.0003	52.60
00094375	0.0004	1DT 0.008	0.024	0.003	< 0.0004	1DT 0.020	1DT 0.0012	105.00

ONTARIO MINISTRY OF THE ENVIRONMENT
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
DATA LISTING
CUMULATIVE SAMPLING ANALYSIS RESULTS

---------- REGION=SE STATION=GOLDEN LAKE MIC TYPE A SITE NO.1 ----------

SAMPLE NUMBER	SUBMISSION NUMBER	LIS SAMPLE TYPE	PROJECT CODE	SUB PROJECT CODE	SAMPLE REMOVAL DATE	EXPOSURE DATE	SAMPLE END HR	SAMPLE START HR	PREC. TYPE	PREC. AT EXP	PREC. AT REM.	GAUGE TYPE	GAUGE DEPTH(MM)	EFFICIENCY %
00024589	AP02135	PR	02	01	JAN 27, 1987	DEC 30, 1986	1700	1205	2			9	19.1	68.86
00024595	AP02173	PR	02	01	FEB 25, 1987	JAN 27, 1987	1800	1705	3			2	52.0	65.81
00024605	AP02203	PR	02	01	MAR 24, 1987	FEB 25, 1987	0700	1805	3			3	31.0	55.14
00024607	AP02203	PR	02	01	APR 21, 1987	MAR 24, 1987	0800	0735	3			3	101.0	78.80
00024623	AP02457	PR	02	01	MAY 19, 1987	APR 21, 1987	1830	0800	1			9	69.8	80.09
00024626	AP02255	PR	02	01	JUN 16, 1987	MAY 19, 1987	0700	1830	1			2	55.0	128.80
00069012	AP02374	PR	02	01	JUL 14, 1987	JUN 16, 1987	0700	0705	1			2	57.0	57.28
00069019	AP02374	PR	02	01	AUG 11, 1987	JUL 14, 1987	0700	0705	1			2	34.0	82.25
00069024	AP02374	PR	02	01	SEP 9, 1987	AUG 11, 1987	1900	0705	1			2	71.0	95.18
00094387	AP02457	PR	02	01	OCT 6, 1987	SEP 9, 1987	0730	1900	1			3	65.0	89.84
00094380	AP02457	PR	02	01	NOV 3, 1987	OCT 6, 1987	0700	0735	1			2	77.0	34.40
00094378	AP02457	PR	02	01	DEC 1, 1987	NOV 3, 1987	0700	0705	3			9	55.1	111.29
00094443	AP02548	PR	02	01	DEC 29, 1987	DEC 1, 1987	0700	0700	3			2	28.0	103.84

SAMPLE NUMBER	FIELD COMMENTS	OFFICE COMMENTS	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	ACIDITY.TFE	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L
00024589			427	23.60	4.32	****	1.25	0.64	0.26
00024595	C		1111	24.00	4.25	****	0.95	0.70	0.12
00024605			555	LG 10.00	4.63	****	0.85	0.22	<T 0.04
00024607		M	2584	11.00	4.63	****	1.05	LG 0.19	<T 0.04
00024623	CP		1815	34.50	4.28	****	4.55	0.75	0.60
00024626		N	2300	37.05	4.10	****	5.10	0.60	0.26
00069012		M	1060	22.20	4.44	****	2.50	0.43	0.16
00069019		M	908	39.00	4.28	****	4.50	0.45	0.20
00069024		CM	2194	23.00	4.28	****	3.50	0.49	0.14
00094387			1896	26.00	4.28	****	3.10	0.33	0.14
00094380	G		860	25.00	4.29	****	2.20	0.57	0.14
00094378	P		1991	13.50	4.55	****	1.10	0.35	<T 0.08
00094443			944	24.00	4.36	****	1.40	0.58	0.32

ONTARIO MINISTRY OF THE ENVIRONMENT
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
DATA LISTING
CUMULATIVE SAMPLING ANALYSIS RESULTS

---------- REGION=SE STATION=GOLDEN LAKE MIC TYPE A SITE NO.1 ----------

SAMPLE NUMBER	CHLORIDE	KJELDAHL	MAGNESIUM	POTASSIUM	SODIUM	AMMONIUM	PHOSPHOR	MANGANESE
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
00024589	0.22	0.220	0.040	<T 0.015	0.105	0.125	0.015	0.004
00024595	0.15	0.220	<T 0.015	<T 0.015	0.055	0.140	<T 0.004	0.001
00024605	0.18	0.130	<T 0.015	<T 0.005	0.050	0.060	0.010	< 0.001
00024607	0.14	0.120	<T 0.010	<T 0.015	<T 0.020	LG 0.055	<T 0.008	< 0.001
00024623	0.17	0.810	0.100	0.065	0.040	0.740	0.011	UG 0.027
00024626	0.10	0.600	0.045	0.065	0.030	0.595	<T 0.008	0.003
00069012	0.12	0.300	0.030	<T 0.010	0.025	0.265	<T 0.005	0.002
00069019	0.16	0.750	0.035	0.030	0.030	0.500	<T 0.004	0.002
00069024	0.20	0.450	0.030	0.035	0.065	0.290	<T 0.008	0.001
00094387	0.07	0.400	<T 0.020	<T 0.015	<T 0.025	0.340	<T 0.007	0.001
00094380	0.09	0.470	<T 0.015	<T 0.015	<T 0.020	0.310	D 0.011	0.001
00094378	0.09	0.200	<T 0.010	<T 0.005	<T 0.025	0.170	<W 0.002	0.001
00094443	0.17	0.280	0.030	<T 0.015	0.055	0.200	<T 0.003	0.001

SAMPLE NUMBER	NICKEL	ZINC	IRON	LEAD	VANADIUM	ALUMINUM	COPPER	ACIDITY GRAN
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L
00024589	< 0.0002	0.010	0.026	1DT 0.003	0.0004	0.038	1DT 0.0008	69.40
00024595	D 0.0004	1DT 0.002	0.009	1DT 0.001	< 0.0004	1DT 0.011	1DT 0.0007	78.50
00024605	< 0.0002	1DT 0.004	0.012	< 0.003	< 0.0004	1DT 0.015	1DT 0.0006	42.20
00024607	< 0.0002	< 0.001	0.014	< 0.001	< 0.0004	0.010	0.0006	43.40
00024623	0.0004	1DT 0.004	0.047	D 0.010	< 0.0004	0.035	0.0009	86.50
00024626	< 0.0002	1DT 0.003	0.009	1DT 0.001	< 0.0004	0.024	1DT 0.0010	90.90
00069012	0.0004	< 0.002	0.011	0.031	< 0.0004	0.028	0.0005	69.70
00069019	0.0005	1DT 0.006	0.017	1DT 0.012	< 0.0004	0.033	1DT 0.0006	92.50
00069024	0.0002	0.011	0.014	0.010	< 0.0004	0.022	1DT 0.0003	89.70
00094387	< 0.0002	D 0.018	0.015	0.003	< 0.0004	< 0.008	0.0004	77.70
00094380	0.0003	D 0.021	0.035	0.007	< 0.0004	< 0.011	1DT 0.0008	76.80
00094378	0.0005	1DT 0.004	0.009	0.007	< 0.0004	< 0.008	< 0.0003	49.80
00094443	0.0002	1DT 0.008	0.014	0.009	< 0.0004	1DT 0.008	< 0.0004	67.60

ONTARIO MINISTRY OF THE ENVIRONMENT
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
DATA LISTING
CUMULATIVE SAMPLING ANALYSIS RESULTS

---------- REGION=SE STATION=SMITHS FALLS MIC TYPE A SITE NO.1 ----------

SAMPLE NUMBER	SUBMISSION NUMBER	L1S SAMPLE TYPE	PROJECT CODE	SUB PROJECT CODE	SAMPLE REMOVAL DATE	EXPOSURE DATE	SAMPLE END HR	SAMPLE START HR	PREC. TYPE	PREC. AT EXP	PREC. AT REM.	GAUGE TYPE	GAUGE DEPTH(MM)	EFFICIENCY %
00024591	AP02135	PR	02	01	JAN 27, 1987	DEC 30, 1986	0955	1330	2			2	38.0	47.98
00024597	AP02173	PR	02	01	FEB 24, 1987	JAN 27, 1987	1310	0955	2			2	34.0	30.98
00024601	AP02203	PR	02	01	MAR 24, 1987	FEB 24, 1987	1002	1310	1			3	33.0	66.27
00024602	AP02203	PR	02	01	APR 21, 1987	MAR 24, 1987	1000	1002	1			3	68.0	51.00
00024624	AP02457	PR	02	01	MAY 19, 1987	APR 21, 1987	0950	1000	1			3	52.0	101.58
00024631	AP02255	PR	02	01	JUN 16, 1987	MAY 19, 1987	1000	0950	1			2	79.0	93.41
00069015	AP02374	PR	02	01	JUL 14, 1987	JUN 16, 1987	1045	1000	1			2	92.0	69.23
00069020	AP02374	PR	02	01	AUG 11, 1987	JUL 14, 1987	1050	1045	1			2	44.0	127.40
00069022	AP02374	PR	02	01	SEP 8, 1987	AUG 11, 1987	1015	1050	1			2	18.0	87.27
00094391	AP02457		02	01	OCT 6, 1987	SEP 8, 1987	0915	1015	1			3	141.0	.
00094377	AP02457	PR	02	01	NOV 3, 1987	OCT 6, 1987	1125	0915	1		1	9	64.5	78.50
00094386	AP02457	PR	02	01	DEC 1, 1987	NOV 3, 1987	1015	1125	2	1		2	149.0	58.27
00094392	AP02457	PR	02	01	DEC 30, 1987	DEC 1, 1987	1545	1015	3			2	58.0	44.50

SAMPLE NUMBER	FIELD COMMENTS	OFFICE COMMENTS	VOLUME ML	CONDUCT UMHO/CM		LAB.PH	ACIDITY.TFE	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L
00024591		N	592	34.50		4.13	****	1.60	0.91	0.20
00024597	CD	N	342	43.00		4.05	****	2.70	1.30	0.66
00024601			710	11.00		4.65	****	0.95	0.31	0.12
00024602			1126	14.00		4.53	****	1.45	0.26	0.10
00024624	C		1715	47.00		4.11	****	6.00	0.96	0.74
00024631			2396	29.85		4.25	****	3.60	0.50	0.42
00069015			2068	37.50		4.24	****	4.20	0.59	0.36
00069020		NM	1820	40.00		4.20	****	5.05	0.44	0.26
00069022		HCM	510	33.00	D	4.55	****	2.65	0.36	0.26
00094391	EG		****	****		****	****	****	****	****
00094377			1644	44.00		4.05	****	3.20	1.04	0.32
00094386			2819	10.00	B	4.75	****	1.10	0.28	0.14
00094392		N	838	27.00		4.28	****	2.40	0.63	0.36

ONTARIO MINISTRY OF THE ENVIRONMENT
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
DATA LISTING
CUMULATIVE SAMPLING ANALYSIS RESULTS

---------- REGION=SE STATION=SMITHS FALLS MIC TYPE A SITE NO.1 ----------

SAMPLE NUMBER	CHLORIDE	KJELDAHL	MAGNESIUM	POTASSIUM	SODIUM	AMMONIUM	PHOSPHOR	MANGANESE
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
00024591	0.36	0.360	<T 0.025	<T 0.005	0.175	0.175	0.011	0.003
00024597	0.62	0.830	0.055	<T 0.015	0.365	0.490	0.022	0.004
00024601	0.21	0.200	<T 0.015	<T 0.010	0.095	0.085	0.010	0.001
00024602	0.33	0.290	0.035	0.030	0.120	0.110	0.026	****
00024624	0.21	0.930	0.135	0.055	0.080	0.840	<T 0.007	0.002
00024631	0.10	0.520	0.130	0.075	0.060	0.425	<T 0.006	< 0.001
00069015	0.17	0.500	0.090	0.025	0.040	0.445	<T 0.006	0.003
00069020	0.15	0.490	D 0.075	<T 0.020	<T 0.020	0.400	<T 0.003	0.002
00069022	0.12	0.300	0.070	<T 0.005	<T 0.020	0.185	<T 0.003	0.003
00094391	****	****	****	****	****	****	****	****
00094377	0.17	0.480	0.055	<T 0.015	<T 0.020	0.410	<T 0.002	0.005
00094386	0.08	0.170	D 0.045	<T 0.005	0.030	0.150	<W 0.002	0.001
00094392	0.23	0.260	0.115	<T 0.005	0.095	0.230	<W 0.002	0.002

SAMPLE NUMBER	NICKEL	ZINC	IRON	LEAD	VANADIUM	ALUMINUM	COPPER	ACIDITY GRAN
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L
00024591	< 0.0002	0.013	0.025	1DT 0.005	0.0004	1DT 0.043	1DT 0.0015	96.70
00024597	< 0.0002	1DT 0.012	0.032	1DT 0.007	0.0007	1DT 0.041	1DT 0.0018	113.00
00024601	< 0.0002	1DT 0.037	0.012	< 0.002	< 0.0004	0.020	0.0011	42.40
00024602	****	****	****	****	****	****	****	48.40
00024624	0.0003	1DT 0.006	0.054	0.006	< 0.0004	0.043	0.0012	113.00
00024631	< 0.0002	1DT 0.003	0.017	1DT 0.001	< 0.0004	0.020	0.0005	70.10
00069015	0.0006	1DT 0.002	0.016	0.010	< 0.0004	0.021	0.0005	99.20
00069020	0.0004	0.008	0.017	0.012	< 0.0004	0.010	0.0006	107.00
00069022	0.0005	1DT 0.005	0.014	0.021	< 0.0004	0.031	1DT 0.0012	58.90
00094391	****	****	****	****	****	****	****	****
00094377	0.0002	1DT 0.005	0.023	0.002	< 0.0004	0.008	1DT 0.0006	124.00
00094386	< 0.0002	1DT 0.002	0.007	0.003	< 0.0004	< 0.007	1DT 0.0002	38.60
00094392	< 0.0002	1DT 0.023	0.015	0.009	< 0.0004	< 0.011	< 0.0004	77.20

PART VII

SOUTHWESTERN REGION CUMULATIVE AMBIENT AIR CONCENTRATION RESULTS

ONTARIO MINISTRY OF THE ENVIRONMENT
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
DATA LISTING
CUMULATIVE SAMPLING ANALYSIS RESULTS

---------- REGION=SW STATION=ALVINSTON MIC TYPE A SITE NO.1 ----------

SAMPLE NUMBER	SUBMISSION NUMBER	LIS SAMPLE TYPE	PROJECT CODE	SUB PROJECT CODE	SAMPLE REMOVAL DATE	EXPOSURE DATE	SAMPLE END HR	SAMPLE START HR	PREC. TYPE	PREC. AT EXP	PREC. AT REM.	GAUGE TYPE	GAUGE DEPTH(MM)	EFFICIENCY %
00074298	AP02132	PR	02	01	JAN 27, 1987	DEC 30, 1986	1130	1630	2	1		2	39.9	82.36
00074314	AP02167	PR	02	01	FEB 24, 1987	JAN 27, 1987	1200	1130	3			2	14.0	58.08
00074324	AP02186	PR	02	01	MAR 24, 1987	FEB 24, 1987	1130	1200	3			2	23.2	68.90
00074340	AP02226	PR	02	01	APR 21, 1987	MAR 24, 1987	1600	1130	1			2	70.1	76.89
00074362	AP02226	PR	02	01	MAY 19, 1987	APR 21, 1987	1130	1600	1			2	17.0	113.42
00074378	AP02255	PR	02	01	JUN 16, 1987	MAY 19, 1987	1200	1130	1			3	40.0	93.71
00074393	AP02279	PR	02	01	JUL 14, 1987	JUN 16, 1987	1330	1200	1			3	30.0	10.06
00074408	AP02321		02	01	AUG 11, 1987	JUL 14, 1987	1200	1330	1			3	56.0	93.17
00074417	AP02336	PR	02	01	SEP 8, 1987	AUG 11, 1987	1230	1200	1			3	40.0	98.25
00074436	AP02357	PR	02	01	OCT 6, 1987	SEP 8, 1987	1200	1230	1			3	83.0	96.11
00074445	AP02407	PR	02	01	NOV 3, 1987	OCT 6, 1987	1200	1200	1			1	63.0	68.69
00063787	AP02412	PR	02	01	DEC 1, 1987	NOV 3, 1987	1300	1200	3			2	68.0	94.26
00074465	AP02447	PR	02	01	DEC 29, 1987	DEC 1, 1987	1130	1300	2			2	76.6	124.97

SAMPLE NUMBER	FIELD COMMENTS	OFFICE COMMENTS	VOLUME ML	CONDUCT UMHO/CM		LAB.PH	ACIDITY.TFE	SULFATE MG/L		NITRATE MG/L	CALCIUM MG/L
00074298			1067	26.10		4.39	****	2.00		0.63	0.40
00074314		H	264	39.50	UG	5.31	****	5.80	UG	2.10	4.00
00074324			519	30.60		4.30	****	2.10		0.64	0.36
00074340	AC		1750	30.58		4.32	****	3.25		0.55	0.34
00074362	ABC		626	52.59		4.11	****	7.70		1.30	1.42
00074378	AC		1217	50.15		3.93	****	5.65		0.85	0.54
00074393	G		98	41.30		4.17	****	4.90		0.80	0.54
00074408		X	1694	****		****	****	****		****	****
00074417	A		1276	27.00		4.36	****	2.75		0.52	0.52
00074436	ABC		2590	62.00		3.96	****	6.40		0.84	0.44
00074445			1405	29.00		4.33	****	2.75		0.64	0.38
00063787			2081	21.00		4.38	****	2.10		0.35	0.28
00074465		N	3108	24.00		4.31	****	2.00		0.47	0.20

ONTARIO MINISTRY OF THE ENVIRONMENT
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
DATA LISTING
CUMULATIVE SAMPLING ANALYSIS RESULTS

---------- REGION=SW STATION=ALVINSTON MIC TYPE A SITE NO.1 ----------

SAMPLE NUMBER	CHLORIDE MG/L	KJELDAHL MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE MG/L
00074298	0.38	0.250	0.055	0.030	0.125	0.230	0.026	0.008
00074314	0.79	0.950	0.360	0.080	0.365	0.750	0.022	B 0.072
00074324	0.30	0.210	0.065	0.025	0.110	0.150	<T 0.007	0.002
00074340	0.17	0.540	0.050	0.050	0.100	0.505	0.017	0.003
00074362	0.39	1.230	0.255	0.220	0.130	1.080	0.026	0.015
00074378	0.25	0.550	0.100	0.035	0.045	0.580	<W 0.002	0.004
00074393	0.55	!IS ****	0.125	0.265	B 0.285	0.610	!IS ****	0.007
00074408	****	****	****	****	****	****	****	****
00074417	0.13	0.380	0.095	0.040	0.030	0.350	<T 0.002	0.002
00074436	0.25	0.840	0.070	0.150	0.040	0.705	0.039	0.004
00074445	0.18	0.480	0.055	0.040	0.060	0.345	<T 0.003	0.002
00063787	0.24	0.290	0.035	<T 0.015	0.045	0.205	<W 0.002	< 0.001
00074465	0.21	0.250	0.030	<T 0.015	0.060	0.200	<W 0.002	0.001

SAMPLE NUMBER	NICKEL MG/L	ZINC MG/L	IRON MG/L	LEAD MG/L	VANADIUM MG/L	ALUMINUM MG/L	COPPER MG/L	ACIDITY GRAN UG/L
00074298	0.0003	1DT 0.011	0.036	1DT 0.002	0.0005	0.053	0.0014	66.50
00074314	D 0.0097	1DT 0.016	UG 0.429	0.012	< 0.0004	0.204	1DT 0.0021	35.00
00074324	0.0002	0.008	0.066	< 0.003	0.0008	0.046	D 0.0029	84.40
00074340	< 0.0002	1DT 0.004	0.022	0.003	< 0.0004	0.030	0.0019	75.40
00074362	0.0018	1DT 0.011	0.107	0.006	< 0.0004	0.193	1DT 0.0012	105.00
00074378	< 0.0002	1DT 0.003	0.037	1DT 0.003	< 0.0004	0.054	0.0016	132.00
00074393	D 0.0029	1DT 0.039	D 0.231	1DT 0.010	D 0.0007	B 1.023	B 0.0099	98.60
00074408	****	****	****	****	****	****	****	****
00074417	< 0.0002	0.004	0.022	0.005	0.0007	0.028	0.0015	74.20
00074436	< 0.0002	1DT 0.005	0.025	1DT 0.005	< 0.0004	0.012	0.0009	149.00
00074445	0.0003	1DT 0.003	0.022	0.054	D 0.0007	0.016	1DT 0.0013	81.70
00063787	< 0.0002	< 0.001	0.012	0.012	< 0.0004	1DT 0.007	1DT 0.0009	70.00
00074465	0.0003	1DT 0.004	0.011	1DT 0.003	< 0.0004	0.008	0.0018	91.60

ONTARIO MINISTRY OF THE ENVIRONMENT
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
DATA LISTING
CUMULATIVE SAMPLING ANALYSIS RESULTS

---------- REGION=SW STATION=COLCHESTER MIC TYPE A SITE NO.1 ----------

SAMPLE NUMBER	SUBMISSION NUMBER	LIS SAMPLE TYPE	PROJECT CODE	SUB PROJECT CODE	SAMPLE REMOVAL DATE	EXPOSURE DATE	SAMPLE END HR	SAMPLE START HR	PREC. TYPE	PREC. AT EXP	PREC. AT REM.	GAUGE TYPE	GAUGE DEPTH(MM)	EFFICIENCY %
00074295	AP02132	PR	02	01	JAN 27, 1987	DEC 30, 1986	0715	0826	2	1	1	2	44.0	61.18
00074310	AP02167	PR	02	01	FEB 24, 1987	JAN 27, 1987	0800	0720	3	1		2	12.6	68.20
00074320	AP02186	PR	02	01	MAR 24, 1987	FEB 24, 1987	0830	0800	3			2	36.1	64.16
00074336	AP02226	PR	02	01	APR 21, 1987	MAR 24, 1987	0710	0830	1			2	82.9	69.66
00074358	AP02226	PR	02	01	MAY 19, 1987	APR 21, 1987	0730	0715	1		1	2	36.0	61.26
00074374	AP02255	PR	02	01	JUN 16, 1987	MAY 19, 1987	1230	0730	1			3	55.0	82.04
00074389	AP02279	PR	02	01	JUL 14, 1987	JUN 16, 1987	0900	1240	1			3	105.0	75.80
00074404	AP02321	PR	02	01	AUG 11, 1987	JUL 14, 1987	0714	0914	1			3	70.0	61.03
00074413	AP02336	PR	02	01	SEP 8, 1987	AUG 11, 1987	0800	0720	1			3	157.0	78.71
00074432	AP02357	PR	02	01	OCT 6, 1987	SEP 8, 1987	0720	0800	1			3	94.0	83.65
00074441	AP02407	PR	02	01	NOV 3, 1987	OCT 6, 1987	1130	0730	1			1	64.0	75.94
00063783	AP02412	PR	02	01	DEC 1, 1987	NOV 3, 1987	0800	1130	3		1	2	52.2	122.20
00074461	AP02447	PR	02	01	DEC 29, 1987	DEC 1, 1987	0740	0800	3	1		2	89.7	76.61

SAMPLE NUMBER	FIELD COMMENTS	OFFICE COMMENTS	VOLUME ML		CONDUCT UMHO/CM	LAB.PH	ACIDITY.TFE	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L
00074295	C		874		35.50	4.20	****	2.45	0.61	0.14
00074310	C		279		48.00	4.01	****	2.95	1.14	0.42
00074320	C		752		34.80	4.23	****	1.80	0.84	0.16
00074336		HM	1875		29.44	4.28	****	3.20	0.51	0.64
00074358	AF		716		37.49	4.63	****	7.20	1.19	1.94
00074374	A		1465		38.70	4.21	****	4.55	0.60	0.38
00074389	AC		2584		38.00	4.17	****	5.15	0.65	0.34
00074404	F		1387		59.00	4.00	****	6.55	0.75	0.60
00074413			4012		25.00	4.70	****	4.40	0.47	1.12
00074432			2553		73.00	3.90	****	8.10	0.90	0.38
00074441			1578	D	40.00	4.13	****	4.10	0.75	0.50
00063783		N	2071		22.00	4.34	****	2.10	0.42	0.20
00074461	CG	H	2231		13.50	5.11	****	2.85	LG 0.15	0.56

ONTARIO MINISTRY OF THE ENVIRONMENT
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
DATA LISTING
CUMULATIVE SAMPLING ANALYSIS RESULTS

---------- REGION=SW STATION=COLCHESTER MIC TYPE A SITE NO.1 ----------

SAMPLE NUMBER	CHLORIDE MG/L	KJELDAHL MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE MG/L
00074295	0.38	0.350	0.030	<T 0.015	0.055	0.300	<T 0.007	0.002
00074310	0.79	0.540	0.085	0.030	0.230	0.425	<T 0.004	0.005
00074320	0.27	0.330	0.045	<T 0.025	0.060	0.270	<T 0.007	0.002
00074336	0.11	0.430	0.080	0.025	0.050	0.435	<T 0.003	0.003
00074358	0.39	1.130	0.490	0.140	0.120	0.970	0.019	0.019
00074374	0.30	0.660	0.095	0.065	0.080	0.710	<W 0.002	0.003
00074389	0.20	D 1.020	0.085	0.160	0.060	0.850	D 0.083	0.003
00074404	0.23	0.980	0.100	0.055	0.035	0.795	0.015	0.004
00074413	0.14	0.440	0.170	0.060	0.040	0.430	<T 0.005	0.004
00074432	0.25	D 1.480	0.075	0.050	<T 0.025	0.950	0.051	0.004
00074441	0.27	0.480	0.090	0.050	0.105	0.425	<W 0.002	0.003
00063783	0.19	0.280	0.035	<T 0.020	0.060	0.245	<W 0.002	0.001
00074461	0.45	RRV 7.000	0.090	UG 0.250	0.355	0.160	0.015	0.005

SAMPLE NUMBER	NICKEL MG/L	ZINC MG/L	IRON MG/L	LEAD MG/L	VANADIUM MG/L	ALUMINUM MG/L	COPPER MG/L	ACIDITY GRAN UG/L
00074295	< 0.0002	1DT 0.012	0.022	1DT 0.006	< 0.0004	0.042	0.0013	92.30
00074310	< 0.0002	1DT 0.022	0.057	1DT 0.007	< 0.0004	0.177	1DT 0.0012	124.00
00074320	< 0.0002	1DT 0.012	0.022	1DT 0.002	< 0.0004	0.037	1DT 0.0010	94.20
00074336	< 0.0002	1DT 0.016	0.028	0.003	< 0.0004	0.034	0.0009	75.60
00074358	0.0003	1DT 0.032	0.180	1DT 0.005	< 0.0004	0.176	D 0.0027	51.70
00074374	< 0.0002	1DT 0.005	0.028	1DT 0.001	< 0.0004	0.038	0.0010	89.80
00074389	0.0004	1DT 0.009	0.013	1DT 0.002	< 0.0004	0.012	1DT 0.0013	100.00
00074404	< 0.0002	1DT 0.011	0.032	0.012	D 0.0005	0.062	L 0.0006	D 170.00
00074413	< 0.0002	0.006	0.032	0.021	< 0.0004	0.031	0.0007	43.80
00074432	< 0.0002	0.009	0.030	0.009	0.0010	0.023	D 0.0049	167.00
00074441	D 0.0013	1DT 0.008	0.028	0.017	< 0.0004	D 0.046	0.0008	D 105.00
00063783	< 0.0002	1DT 0.004	0.008	1DT 0.009	< 0.0004	1DT 0.005	1DT 0.0002	73.00
00074461	0.0024	1DT 0.014	0.035	1DT 0.001	< 0.0004	0.022	B 0.0095	43.90

ONTARIO MINISTRY OF THE ENVIRONMENT
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
DATA LISTING
CUMULATIVE SAMPLING ANALYSIS RESULTS

---------- REGION-SW STATION-MERLIN MIC TYPE A SITE NO.1 ----------

SAMPLE NUMBER	SUBMISSION NUMBER	LIS SAMPLE TYPE	PROJECT CODE	SUB PROJECT CODE	SAMPLE REMOVAL DATE	EXPOSURE DATE	SAMPLE END HR	SAMPLE START HR	PREC. TYPE	PREC. AT EXP	PREC. AT REM.	GAUGE TYPE	GAUGE DEPTH(MM)	EFFICIENCY %
00074294	AP02132	PR	02	01	JAN 27, 1987	DEC 30, 1986	0700	1430	2			2	48.2	32.33
00074311	AP02167	PR	02	01	FEB 24, 1987	JAN 27, 1987	0700	0700	3			2	24.3	30.93
00074321	AP02186	PR	02	01	MAR 24, 1987	FEB 24, 1987	0700	0700	3			2	21.4	78.44
00074337	AP02226	PR	02	01	APR 21, 1987	MAR 24, 1987	0700	0700	1			2	53.3	72.52
00074359	AP02226	PR	02	01	MAY 19, 1987	APR 21, 1987	0700	0700	1			2	44.0	86.31
00074375	AP02255	PR	02	01	JUN 16, 1987	MAY 19, 1987	0700	0700	1			3	20.0	76.54
00074390	AP02279	PR	02	01	JUL 14, 1987	JUN 16, 1987	0700	0700	1			3	107.0	81.78
00074405	AP02321	PR	02	01	AUG 11, 1987	JUL 14, 1987	0700	0700	1			3	103.0	84.18
00074414	AP02336	PR	02	01	SEP 8, 1987	AUG 11, 1987	1400	0700	1			3	93.0	79.12
00074433	AP02357	PR	02	01	OCT 7, 1987	SEP 8, 1987	1400	1400	1			3	107.0	76.71
00074442	AP02407	PR	02	01	NOV 3, 1987	OCT 7, 1987	0700	1400	1			1	50.0	107.12
00063784	AP02412	PR	02	01	DEC 1, 1987	NOV 3, 1987	0700	0700	1		1	2	31.0	171.59
00074462	AP02447	PR	02	01	DEC 29, 1987	DEC 1, 1987	0900	0700	3		1	2	93.6	72.49

SAMPLE NUMBER	FIELD COMMENTS	OFFICE COMMENTS	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	ACIDITY.TFE	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L
00074294		N	506	36.00	4.21	****	2.65	0.67	0.22
00074311		N	244	54.50	4.14	****	4.45	UG 1.95	1.84
00074321			545	43.80	4.09	****	2.25	1.03	0.28
00074337			1255	33.98	4.27	****	3.65	0.62	0.50
00074359	A		1233	49.24	4.11	****	7.30	0.93	0.96
00074375	A		497	26.40	4.55	****	4.45	0.70	0.60
00074390			2841	38.00	4.14	****	4.35	0.60	0.30
00074405			2815	41.50	4.19	****	4.55	0.50	0.44
00074414	ABC	H	2389	21.50	UG 5.41	****	4.00	0.51	0.32
00074433			2665	50.00	4.07	****	5.00	0.78	0.36
00074442			1739	30.00	4.27	****	3.00	0.56	0.34
00063784	A	N	1727	25.00	4.26	****	2.25	0.45	0.18
00074462	G	HM	2203	14.00	B 7.31	****	3.35	0.29	D 1.30

ONTARIO MINISTRY OF THE ENVIRONMENT
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
DATA LISTING
CUMULATIVE SAMPLING ANALYSIS RESULTS

REGION=SW STATION=MERLIN MIC TYPE A SITE NO.1

SAMPLE NUMBER	CHLORIDE MG/L	KJELDAHL MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE MG/L
00074294	0.33	0.390	0.035	<T 0.020	0.075	0.335	<T 0.002	0.002
00074311	0.99	0.870	0.300	0.050	0.375	0.610	0.012	0.013
00074321	0.36	0.230	0.050	<T 0.025	0.075	0.170	<T 0.004	0.003
00074337	0.13	0.510	0.070	0.030	0.065	0.475	<T 0.007	0.003
00074359	0.21	0.960	0.220	0.060	0.060	0.920	0.012	0.010
00074375	0.30	1.720	0.120	D 0.175	0.125	1.100	D 0.085	0.005
00074390	0.20	0.510	0.070	0.085	<T 0.020	0.530	<T 0.002	0.003
00074405	0.25	0.560	0.065	<T 0.020	0.030	0.500	<T 0.007	0.003
00074414	0.15	1.490	0.100	0.230	0.045	1.450	0.161	0.004
00074433	0.19	0.730	0.060	0.070	0.030	0.645	0.016	0.002
00074442	0.12	0.380	0.050	<T 0.020	0.040	0.340	<W 0.002	0.002
00063784	0.22	0.270	<T 0.020	0.045	0.060	0.245	<W 0.002	< 0.001
00074462	0.55	RRV 3.650	D 0.225	UG 0.295	0.280	0.210	0.014	0.007

SAMPLE NUMBER	NICKEL MG/L	ZINC MG/L	IRON MG/L	LEAD MG/L	VANADIUM MG/L	ALUMINUM MG/L	COPPER MG/L	ACIDITY GRAN UG/L
00074294	0.0002	1DT 0.012	0.038	1DT 0.005	< 0.0004	0.074	0.0021	93.10
00074311	0.0009	1DT 0.023	UG 0.306	0.011	0.0004	UG 0.254	1DT 0.0017	114.00
00074321	0.0004	1DT 0.011	0.039	1DT 0.003	< 0.0004	0.064	1DT 0.0013	120.00
00074337	< 0.0002	1DT 0.004	0.032	0.003	< 0.0004	0.042	< 0.0004	78.60
00074359	0.0031	1DT 0.007	0.082	0.004	< 0.0004	0.093	0.0005	108.00
00074375	< 0.0002	1DT 0.012	0.044	1DT 0.002	< 0.0004	0.074	D 0.0029	52.60
00074390	0.0002	1DT 0.006	0.018	1DT 0.002	< 0.0004	1DT 0.020	0.0010	97.30
00074405	< 0.0002	1DT 0.005	0.022	0.005	< 0.0004	0.039	1DT 0.0007	93.70
00074414	0.0005	0.011	0.024	0.007	< 0.0004	0.027	0.0007	35.10
00074433	< 0.0002	0.005	0.022	1DT 0.005	< 0.0004	0.018	0.0009	115.00
00074442	0.0003	1DT 0.006	0.019	0.039	< 0.0004	0.021	1DT 0.0010	81.40
00063784	< 0.0002	< 0.002	0.010	0.016	< 0.0004	1DT 0.005	1DT 0.0003	84.20
00074462	0.0016	0.021	0.025	1DT 0.002	< 0.0004	0.017	0.0030	LG 20.30

ONTARIO MINISTRY OF THE ENVIRONMENT
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
DATA LISTING
CUMULATIVE SAMPLING ANALYSIS RESULTS

---------- REGION=SW STATION=PALMERSTON MIC TYPE A SITE NO.1 ----------

SAMPLE NUMBER	SUBMISSION NUMBER	LIS SAMPLE TYPE	PROJECT CODE	SUB PROJECT CODE	SAMPLE REMOVAL DATE	EXPOSURE DATE	SAMPLE END HR	SAMPLE START HR	PREC. TYPE	PREC. AT EXP	PREC. AT REM.	GAUGE TYPE	GAUGE DEPTH(MM)	EFFICIENCY %
00074299	AP02132	PR	02	01	JAN 27, 1987	DEC 30, 1986	1300	0900	2			2	33.1	0.56
00074316	AP02167	PR	02	01	FEB 24, 1987	JAN 27, 1987	1315	1300	3			2	20.2	34.46
00074326	AP02186	PR	02	01	MAR 25, 1987	FEB 24, 1987	1600	1315	3			2	17.0	83.34
00074342	AP02226	PR	02	01	APR 21, 1987	MAR 25, 1987	1030	1600	3			2	38.9	79.57
00074364	AP02226	PR	02	01	MAY 19, 1987	APR 21, 1987	1300	1030	1			2	35.0	77.97
00074380	AP02255	PR	02	01	JUN 16, 1987	MAY 19, 1987	1300	1300	1			3	45.0	60.03
00074397	AP02295	PR	02	01	JUL 14, 1987	JUN 16, 1987	1300	1300	1			3	140.0	54.25
00074409	AP02321	PR	02	01	AUG 11, 1987	JUL 14, 1987	1000	1300	1			3	70.0	86.11
00074418	AP02336	PR	02	01	SEP 9, 1987	AUG 11, 1987	1600	1300	1			3	22.0	69.44
00074437	AP02357	PR	02	01	OCT 6, 1987	SEP 9, 1987	1300	1600	1		1	3	68.0	77.77
00074446	AP02407	PR	02	01	NOV 3, 1987	OCT 6, 1987	1300	1300	1			1	80.0	98.21
00063788	AP02412	PR	02	01	DEC 1, 1987	NOV 3, 1987	1130	1300	3			2	85.0	83.56
00074466	AP02447	PR	02	01	DEC 29, 1987	DEC 1, 1987	1300	1300	3			2	64.5	66.71

SAMPLE NUMBER	FIELD COMMENTS	OFFICE COMMENTS	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	ACIDITY.TFE	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L
00074299	FIK	X	6	****		****	****	****	****
00074316		NH	226	36.50		5.10	****	4.70	1.75	1.32
00074326		HM	460	36.80	UG	5.72	****	5.10	1.16	1.62
00074342			1005	28.31		4.41	****	3.20	0.61	0.34
00074364			886	62.67		4.07	****	9.70	1.65	1.64
00074380			877	38.00		4.48	****	7.15	1.10	1.12
00074397			2466	36.00		4.08	****	4.25	0.49	0.20
00074409			1957	33.00		4.27	****	3.60	0.37	0.30
00074418		H	496	25.50		4.86	****	4.25	0.58	0.72
00074437			1717	63.00		3.96	****	6.65	0.91	0.42
00074446			2551	25.00		4.41	****	2.80	0.55	0.22
00063788			2306	15.00		4.55	****	1.65	0.32	0.16
00074466			1397	21.00		4.45	****	2.20	0.49	0.26

ONTARIO MINISTRY OF THE ENVIRONMENT
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
DATA LISTING
CUMULATIVE SAMPLING ANALYSIS RESULTS

---------- REGION=SW STATION=PALMERSTON MIC TYPE A SITE NO.1 ----------

SAMPLE NUMBER	CHLORIDE MG/L	KJELDAHL MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE MG/L
00074299	****	****	****	****	****	****	****	****
00074316	0.91	B 2.800	0.275	D 0.185	0.430	1.600	0.034	0.011
00074326	1.10	!IR ****	0.405	UG 0.210	0.515	1.800	!IR ****	****
00074342	0.18	0.700	0.075	0.025	0.120	0.675	<T 0.009	0.004
00074364	0.34	1.670	0.315	0.090	0.085	1.670	0.015	0.020
00074380	0.20	1.800	0.270	0.045	0.050	D 1.750	0.019	0.010
00074397	0.10	0.450	0.035	0.045	<T 0.025	0.425	<T 0.004	0.001
00074409	0.11	0.430	0.055	<T 0.010	<T 0.015	0.380	<T 0.005	0.002
00074418	0.17	1.100	0.180	0.060	0.045	1.000	0.012	0.004
00074437	0.18	0.910	0.080	0.030	<T 0.020	0.815	<T 0.007	0.003
00074446	0.08	0.540	0.035	<T 0.015	0.030	0.505	<W 0.002	0.001
00063788	0.12	0.310	<T 0.015	0.025	0.040	0.270	<T 0.003	< 0.001
00074466	0.16	0.340	0.070	<T 0.010	0.055	0.290	<W 0.002	0.003

SAMPLE NUMBER	NICKEL MG/L	ZINC MG/L	IRON MG/L	LEAD MG/L	VANADIUM MG/L	ALUMINUM MG/L	COPPER MG/L	ACIDITY GRAN UG/L
00074299	****	****	****	****	****	****	****	****
00074316	0.0022	1DT 0.026	0.058	1DT 0.006	D 0.0006	B 0.532	1DT 0.0056	89.80
00074326	****	****	****	****	****	****	****	84.10
00074342	< 0.0002	1DT 0.008	0.025	0.004	< 0.0004	L 0.028	0.0045	64.80
00074364	0.0004	1DT 0.010	0.143	0.006	< 0.0004	0.155	0.0010	121.00
00074380	< 0.0002	1DT 0.008	0.039	0.002	D 0.0005	0.065	0.0007	61.60
00074397	0.0003	1DT 0.002	0.010	1DT 0.001	< 0.0004	1DT 0.007	1DT 0.0002	110.00
00074409	< 0.0002	1DT 0.003	0.011	0.010	<T 0.0004	0.028	< 0.0003	78.00
00074418	< 0.0002	0.009	0.039	1DT 0.004	< 0.0004	0.040	0.0017	40.10
00074437	< 0.0002	0.005	0.021	1DT 0.035	< 0.0004	0.017	1DT 0.0005	143.00
00074446	< 0.0002	1DT 0.005	0.012	0.040	< 0.0004	0.010	1DT 0.0004	69.20
00063788	< 0.0002	1DT 0.002	0.007	0.022	< 0.0004	1DT 0.005	1DT 0.0002	52.60
00074466	< 0.0002	1DT 0.013	0.015	0.019	< 0.0004	1DT 0.011	1DT 0.0005	68.60

ONTARIO MINISTRY OF THE ENVIRONMENT
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
DATA LISTING
CUMULATIVE SAMPLING ANALYSIS RESULTS

---------- REGION=SW STATION=PORT STANLEY MIC TYPE A SITE NO.1 ----------

SAMPLE NUMBER	SUBMISSION NUMBER	LIS SAMPLE TYPE	PROJECT CODE	SUB PROJECT CODE	SAMPLE REMOVAL DATE	EXPOSURE DATE	SAMPLE END HR	SAMPLE START HR	PREC. TYPE	PREC. AT EXP	PREC. AT REM.	GAUGE TYPE	GAUGE DEPTH(MM)	EFFICIENCY %
00074296	AP02132	PR	02	01	JAN 26, 1987	DEC 30, 1986	0900	0900	3			2	46.1	57.86
00074312	AP02167	PR	02	01	FEB 24, 1987	JAN 26, 1987	0930	0900	3			2	10.8	60.17
00074322	AP02186	PR	02	01	MAR 24, 1987	FEB 24, 1987	0900	0930	3			2	27.7	71.27
00074338	AP02226	PR	02	01	APR 21, 1987	MAR 24, 1987	0900	0900	3			2	95.0	58.68
00074360	AP02226	PR	02	01	MAY 19, 1987	APR 21, 1987	0900	0900	1			2	33.0	91.37
00074376	AP02255	PR	02	01	JUN 16, 1987	MAY 19, 1987	0930	0900	1			3	13.0	72.50
00074391	AP02279	PR	02	01	JUL 14, 1987	JUN 16, 1987	1450	0930	1			3	77.0	86.64
00074406	AP02321	PR	02	01	AUG 11, 1987	JUL 14, 1987	0845	1450	1			3	113.0	94.01
00074415	AP02336	PR	02	01	SEP 8, 1987	AUG 11, 1987	0900	0845	1			3	40.0	102.95
00074434	AP02357	PR	02	01	OCT 6, 1987	SEP 8, 1987	1130	0900	1			3	77.0	84.68
00074443	AP02407	PR	02	01	NOV 3, 1987	OCT 6, 1987	1100	1130	1			1	48.0	101.83
00063785	AP02412	PR	02	01	DEC 1, 1987	NOV 3, 1987	0845	1100	3	1	1	2	70.0	99.88
00074463	AP02447	PR	02	01	DEC 29, 1987	DEC 1, 1987	0930	0845	3	1		2	102.6	66.10

SAMPLE NUMBER	FIELD COMMENTS	OFFICE COMMENTS	VOLUME ML	CONDUCT UMHO/CM		LAB.PH		ACIDITY.TFE	SULFATE MG/L		NITRATE MG/L		CALCIUM MG/L
00074296			866	44.10		4.13		****	3.45		0.89		0.40
00074312			211	60.00	UG	7.01		****	8.60	UG	2.65		6.02
00074322			641	22.80		4.75		****	2.70		0.68		1.08
00074338			1810	48.13		4.13		****	6.20		0.93		0.98
00074360		H	979	34.13	UG	4.95		****	8.00		1.06		2.40
00074376	AC		306	89.80	UG	3.85		****	13.90	UG	2.00		2.52
00074391			2166	57.00		3.93		****	6.10		0.85		0.46
00074406	F		3449	36.00		4.24		****	4.10		0.39		0.28
00074415			1337	30.50		4.36		****	3.35		0.53		0.68
00074434		H	2117	26.00	UG	6.53		****	5.95		0.79		2.30
00074443			1587	27.00	UG	7.23		****	5.25		0.85		3.46
00063785		H	2270	18.00		4.73		****	3.25		0.52		1.18
00074463			2202	25.00		4.29		****	2.25		0.49		0.34

ONTARIO MINISTRY OF THE ENVIRONMENT
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
DATA LISTING
CUMULATIVE SAMPLING ANALYSIS RESULTS

REGION=SW STATION-PORT STANLEY MIC TYPE A SITE NO.1

SAMPLE NUMBER	CHLORIDE MG/L	KJELDAHL MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE MG/L
00074296	0.38	0.570	0.040	0.035	0.065	0.510	<T 0.002	0.003
00074312	UG 1.10	1.070	1.080	0.055	0.500	0.850	<T 0.002	0.033
00074322	0.28	0.230	0.180	<T 0.020	0.105	0.185	<T 0.002	0.003
00074338	0.31	0.770	0.130	0.065	0.120	0.710	0.017	0.006
00074360	0.21	1.080	0.345	0.085	0.060	0.900	0.064	0.019
00074376	UG 0.50	1.590	0.285	0.215	0.165	UG 1.650	D 0.070	0.015
00074391	0.25	0.610	0.050	0.050	0.070	0.620	<T 0.003	0.003
00074406	0.10	0.540	0.040	<T 0.020	0.030	0.530	<T 0.004	0.002
00074415	0.14	0.340	0.055	0.030	0.035	0.270	<T 0.005	0.003
00074434	0.17	0.630	0.440	0.035	0.030	0.555	<T 0.009	0.011
00074443	0.18	0.760	0.530	0.065	0.080	0.625	0.025	0.008
00063785	0.23	0.280	0.215	0.035	0.075	0.245	0.016	0.004
00074463	0.18	0.320	0.050	<T 0.015	0.065	0.230	<W 0.002	0.002

SAMPLE NUMBER	NICKEL MG/L	ZINC MG/L	IRON MG/L	LEAD MG/L	VANADIUM MG/L	ALUMINUM MG/L	COPPER MG/L	ACIDITY GRAN UG/L
00074296	0.0005	1DT 0.021	0.038	0.006	0.0004	0.057	0.0016	108.00
00074312	0.0052	1DT 0.015	UG 0.668	0.016	0.0006	UG 0.241	1DT 0.0013	17.30
00074322	0.0005	1DT 0.007	0.078	0.003	< 0.0004	0.068	1DT 0.0010	43.40
00074338	0.0004	1DT 0.008	0.062	0.006	< 0.0004	0.064	0.0027	104.00
00074360	< 0.0002	1DT 0.024	0.124	1DT 0.003	< 0.0004	0.150	1DT 0.0005	LG 38.50
00074376	0.0009	1DT 0.012	0.131	1DT 0.003	0.0007	0.198	0.0032	UG 197.00
00074391	0.0004	1DT 0.009	0.024	1DT 0.003	< 0.0004	0.025	0.0009	143.00
00074406	< 0.0002	1DT 0.003	0.014	0.005	< 0.0004	0.028	1DT 0.0002	86.60
00074415	0.0005	0.003	0.026	0.002	< 0.0004	0.037	0.0011	73.90
00074434	< 0.0002	0.002	0.028	0.018	< 0.0004	1DT 0.014	1DT 0.0003	LG 18.40
00074443	0.0014	0.004	0.050	0.023	0.0005	1DT 0.023	0.0009	LG 15.70
00063785	< 0.0002	< 0.001	0.030	0.012	< 0.0004	1DT 0.011	1DT 0.0004	42.30
00074463	< 0.0002	1DT 0.004	0.019	1DT 0.002	< 0.0004	0.013	1DT 0.0004	85.40

ONTARIO MINISTRY OF THE ENVIRONMENT
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
DATA LISTING
CUMULATIVE SAMPLING ANALYSIS RESULTS

---------- REGION=SW STATION=SHALLOW LAKE MIC TYPE A SITE NO.1 ----------

SAMPLE NUMBER	SUBMISSION NUMBER	LIS SAMPLE TYPE	PROJECT CODE	SUB PROJECT CODE	SAMPLE REMOVAL DATE	EXPOSURE DATE	SAMPLE END HR	SAMPLE START HR	PREC. TYPE	PREC. AT EXP	PREC. AT REM.	GAUGE TYPE	GAUGE DEPTH(MM)	EFFICIENCY %
00074300	AP02132	PR	02	01	JAN 28, 1987	DEC 31, 1986	0800	1630	2		1	2	46.4	62.20
00074315	AP02167	PR	02	01	FEB 24, 1987	JAN 28, 1987	0800	0800	3	1		2	35.9	51.05
00074325	AP02186	PR	02	01	MAR 25, 1987	FEB 24, 1987	0800	0800	3			2	24.0	77.26
00074341	AP02226	PR	02	01	APR 21, 1987	MAR 25, 1987	1220	0800	3			2	117.4	36.99
00074363	AP02226	PR	02	01	MAY 19, 1987	APR 21, 1987	0730	1230	1			2	30.0	96.30
00074379	AP02255	PR	02	01	JUN 16, 1987	MAY 19, 1987	0830	0730	1			3	58.0	95.75
00040694	AP02255	PR	02	01	JUL 14, 1987	JUN 16, 1987	1030	0830	1			2	123.0	89.57
00040872	AP02279	PR	02	01	AUG 11, 1987	JUL 14, 1987	0935	1030	1			3	56.5	83.35
00040943	AP02309	PR	02	01	SEP 8, 1987	AUG 11, 1987	0830	0935	1			3	51.5	81.75
00040959	AP02330	PR	02	01	OCT 6, 1987	SEP 8, 1987	1300	0835	1		1	3	175.0	72.46
00084003	AP02374	PR	02	01	NOV 3, 1987	OCT 6, 1987	0830	1300	1			9	98.1	91.40
00040977	AP02397	PR	02	01	DEC 1, 1987	NOV 3, 1987	0800	0830	3	1		2	10.5	395.41
00084018	AP02430	PR	02	01	DEC 29, 1987	DEC 2, 1987	1100	0700	3			9	78.8	81.30

SAMPLE NUMBER	FIELD COMMENTS	OFFICE COMMENTS	VOLUME ML	CONDUCT UMHO/CM		LAB.PH		ACIDITY.TFE		SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L
00074300			937	23.40		4.42		****		1.30	0.66	0.14
00074315		HM	595	27.00		4.30		****		1.90	0.87	0.48
00074325			602	25.10		4.32		****		1.65	0.45	<T 0.06
00074341		N	1410	47.57	D	4.08	D	****	D	4.80	0.97	0.30
00074363			938	45.88		4.19		****		6.75	1.11	1.02
00074379			1803	43.90		4.01		****		5.30	0.75	0.38
00040694	A	HM	3577	27.65		4.21		****		2.65	0.40	0.28
00040872	F		1529	20.20		4.49		****		2.30	0.40	0.24
00040943	ACDFJ		1367	76.50		3.85		****		9.65	1.20	1.04
00040959	A		4117	36.50		4.24		****		4.00	0.56	0.40
00084003	JP	HM	2911	23.00		4.39		****		3.15	0.66	0.26
00040977	GFA		1348	17.00		4.62		****		1.60	0.42	0.12
00084018	G		2080	16.50		4.49		****		1.10	0.31	<T 0.06

ONTARIO MINISTRY OF THE ENVIRONMENT
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
DATA LISTING
CUMULATIVE SAMPLING ANALYSIS RESULTS

---------- REGION=SW STATION=SHALLOW LAKE MIC TYPE A SITE NO.1 ----------

SAMPLE NUMBER	CHLORIDE MG/L	KJELDAHL MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE MG/L
00074300	0.22	0.410	0.035	<T 0.010	0.100	0.340	<T 0.003	0.001
00074315	0.23	0.720	0.045	<T 0.010	0.100	0.615	<T 0.007	0.002
00074325	0.14	0.180	<T 0.015	<W 0.005	0.075	0.095	0.011	< 0.001
00074341	0.18	0.930	0.055	0.045	0.100	0.900	0.015	0.002
00074363	0.21	1.360	0.180	0.085	0.070	1.150	0.033	0.012
00074379	0.15	0.820	0.070	<T 0.020	0.040	0.820	<T 0.005	0.004
00040694	<T 0.05	0.350	0.040	<T 0.010	<W 0.005	0.315	<T 0.007	0.001
00040872	0.10	0.420	0.040	<W 0.005	<T 0.010	0.330	<T 0.005	0.002
00040943	0.35	1.480	0.295	0.215	0.090	1.300	0.085	0.007
00040959	0.11	0.560	0.050	0.035	<T 0.025	0.555	<T 0.002	0.002
00084003	0.22	0.540	0.060	<T 0.015	0.050	0.460	<T 0.005	0.002
00040977	0.13	0.450	<T 0.020	0.040	0.040	0.345	<T 0.004	< 0.001
00084018	0.16	0.200	<T 0.010	0.080	0.040	0.070	<T 0.003	< 0.001

SAMPLE NUMBER	NICKEL MG/L	ZINC MG/L	IRON MG/L	LEAD MG/L	VANADIUM MG/L	ALUMINUM MG/L	COPPER MG/L	ACIDITY GRAN UG/L
00074300	0.0010	1DT 0.007	0.017	1DT 0.003	< 0.0004	0.031	0.0012	59.20
00074315	0.0040	1DT 0.008	0.045	1DT 0.003	< 0.0004	1DT 0.033	< 0.0005	78.00
00074325	< 0.0002	1DT 0.003	0.004	< 0.003	< 0.0004	0.025	1DT 0.0008	77.20
00074341	D 0.0018	1DT 0.006	0.023	0.004	< 0.0004	0.030	0.0022	D 114.00
00074363	0.0002	1DT 0.008	0.113	0.004	< 0.0004	0.113	0.0013	94.70
00074379	< 0.0002	1DT 0.002	0.020	< 0.002	< 0.0004	0.032	0.0009	114.00
00040694	< 0.0002	1DT 0.001	0.009	1DT 0.001	< 0.0004	0.043	0.0007	74.40
00040872	0.0002	< 0.002	0.012	1DT 0.001	< 0.0004	< 0.008	1DT 0.0009	55.00
00040943	0.0007	1DT 0.011	0.053	1DT 0.003	0.0007	0.036	1DT 0.0011	D 182.00
00040959	< 0.0002	0.002	0.024	0.001	< 0.0004	0.016	0.0015	90.40
00084003	0.0003	0.007	0.021	0.012	< 0.0004	1DT 0.005	0.0009	75.60
00040977	< 0.0002	< 0.002	0.007	0.006	< 0.0004	1DT 0.008	1DT 0.0004	55.40
00084018	< 0.0002	< 0.001	0.009	0.005	< 0.0004	1DT 0.006	< 0.0003	59.70

ONTARIO MINISTRY OF THE ENVIRONMENT
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
DATA LISTING
CUMULATIVE SAMPLING ANALYSIS RESULTS

---------- REGION=SW STATION=WATERLOO MIC TYPE A SITE NO.1 ----------

SAMPLE NUMBER	SUBMISSION NUMBER	LIS SAMPLE TYPE	PROJECT CODE	SUB PROJECT CODE	SAMPLE REMOVAL DATE	EXPOSURE DATE	SAMPLE END HR	SAMPLE START HR	PREC. TYPE	PREC. AT EXP	PREC. AT REM.	GAUGE TYPE	GAUGE DEPTH(MM)	EFFICIENCY %
00074303	AP02132	PR	02	01	JAN 27, 1987	DEC 30, 1986	0900	1400	3			2	52.1	63.79
00074319	AP02167	PR	02	01	FEB 24, 1987	JAN 27, 1987	0900	0900	3			2	18.8	67.01
00074329	AP02186	PR	02	01	MAR 24, 1987	FEB 24, 1987	1000	0900	3			2	26.4	71.75
00074345	AP02226	PR	02	01	APR 21, 1987	MAR 24, 1987	0930	1000	3			2	91.3	66.12
00074367	AP02226	PR	02	01	MAY 19, 1987	APR 21, 1987	1800	0930	1			2	39.0	69.66
00074383	AP02255	PR	02	01	JUN 16, 1987	MAY 19, 1987	0840	1800	1			3	25.0	121.48
00074396	AP02279	PR	02	01	JUL 14, 1987	JUN 16, 1987	1430	0840	1			3	186.0	77.45
00074412	AP02321	PR	02	01	AUG 11, 1987	JUL 14, 1987	0840	1430	1			3	178.0	84.67
00074421	AP02336	PR	02	01	SEP 8, 1987	AUG 11, 1987	1325	0840	1			3	28.0	80.08
00074440	AP02357	PR	02	01	OCT 6, 1987	SEP 8, 1987	0845	1330	1			3	123.0	62.83
00074449	AP02407	PR	02	01	NOV 3, 1987	OCT 6, 1987	0930	0845	1		1	1	40.0	169.40
00063791	AP02412	PR	02	01	DEC 1, 1987	NOV 3, 1987	0915	0930	3	1		2	67.3	87.82
00074469	AP02447	PR	02	01	DEC 29, 1987	DEC 1, 1987	0830	0915	3			2	94.1	74.95

SAMPLE NUMBER	FIELD COMMENTS	OFFICE COMMENTS	VOLUME ML	CONDUCT UMHO/CM	LAB.PH	ACIDITY.TFE	SULFATE MG/L	NITRATE MG/L	CALCIUM MG/L
00074303			1079	23.20	4.47	****	1.45	0.59	0.30
00074319			409	31.50	4.25	****	2.50	0.79	0.34
00074329			615	24.00	4.40	****	1.95	0.43	0.14
00074345	A		1960	29.09	4.30	****	3.05	0.54	0.32
00074367	AC	H	882	44.73	4.43	****	8.85	1.34	2.48
00074383	A	N	986	53.40	4.03	****	6.75	1.20	1.12
00074396			4677	!LA ****	!LA ****	****	!LA ****	!LA ****	!LA ****
00074412			4893	44.00	4.19	****	5.25	0.58	0.66
00074421			728	25.00	4.63	****	3.60	0.59	0.74
00074440			2509	55.00	4.02	****	5.95	0.66	0.38
00074449		N	2200	25.00	4.49	****	3.15	0.60	0.50
00063791			1919	14.00	4.48	****	1.45	LG 0.23	0.14
00074469		H	2290	12.00	6.40	****	2.40	0.36	0.76

ONTARIO MINISTRY OF THE ENVIRONMENT
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
DATA LISTING
CUMULATIVE SAMPLING ANALYSIS RESULTS

---------- REGION-SW STATION-WATERLOO MIC TYPE A SITE NO.1 ----------

SAMPLE NUMBER	CHLORIDE MG/L	KJELDAHL MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE MG/L
00074303	0.30	0.320	0.055	<T 0.015	0.085	0.270	<T 0.005	0.002
00074319	0.33	0.590	0.055	0.025	0.135	0.430	<T 0.006	0.003
00074329	0.29	0.300	0.040	<T 0.005	0.050	0.200	<T 0.007	0.001
00074345	0.14	0.490	0.060	<T 0.020	0.080	0.430	<T 0.007	0.002
00074367	0.30	1.460	0.435	0.100	0.100	1.460	0.014	0.020
00074383	0.25	1.140	0.200	0.055	0.055	1.150	<T 0.008	0.011
00074396	!LA ****	!IS ****	!LA ****	!LA ****	!LA ****	!LA ****	!IS ****	!LA ****
00074412	0.15	0.670	0.100	<T 0.015	0.030	0.630	<T 0.008	0.004
00074421	0.19	0.720	0.145	0.040	0.050	0.650	<T 0.009	0.005
00074440	0.14	0.720	0.065	0.030	<T 0.015	0.655	<T 0.004	0.003
00074449	0.11	0.600	0.075	0.050	0.090	0.545	0.012	0.003
00063791	0.08	0.160	<T 0.020	<W 0.005	0.025	0.135	<W 0.002	< 0.001
00074469	0.52	RRV 1.570	0.165	0.185	0.295	0.280	<T 0.003	0.006

SAMPLE NUMBER	NICKEL MG/L	ZINC MG/L	IRON MG/L	LEAD MG/L	VANADIUM MG/L	ALUMINUM MG/L	COPPER MG/L	ACIDITY GRAN UG/L
00074303	0.0002	1DT 0.006	0.027	1DT 0.003	0.0004	0.036	0.0012	62.10
00074319	< 0.0002	1DT 0.021	0.059	1DT 0.005	< 0.0004	1DT 0.058	1DT 0.0014	83.60
00074329	< 0.0004	1DT 0.006	0.143	< 0.003	0.0004	0.031	0.0026	69.60
00074345	< 0.0002	1DT 0.003	0.026	0.003	< 0.0004	0.063	0.0009	77.50
00074367	0.0004	1DT 0.009	0.146	0.003	< 0.0004	0.175	0.0005	70.30
00074383	0.0002	1DT 0.005	0.061	0.002	< 0.0004	0.097	0.0015	113.00
00074396	!LA ****	!LA ****	!LA ****	!LA ****	!LA ****	!LA ****	!LA ****	!LA ****
00074412	< 0.0002	1DT 0.004	0.025	****	< 0.0004	0.042	1DT 0.0008	98.10
00074421	0.0006	0.010	0.052	0.010	< 0.0004	0.062	0.0013	49.10
00074440	< 0.0002	0.008	0.018	0.010	< 0.0004	0.022	0.0009	129.00
00074449	0.0009	1DT 0.005	0.026	0.007	< 0.0004	0.011	0.0006	62.00
00063791	< 0.0002	< 0.002	0.009	1DT 0.001	< 0.0004	< 0.008	< 0.0003	55.00
00074469	0.0013	1DT 0.014	0.028	0.009	< 0.0004	0.018	0.0065	21.90

ONTARIO MINISTRY OF THE ENVIRONMENT
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
DATA LISTING
CUMULATIVE SAMPLING ANALYSIS RESULTS

---------- REGION=SW STATION=WILKESPORT MIC TYPE A SITE NO.1 ----------

SAMPLE NUMBER	SUBMISSION NUMBER	LIS SAMPLE TYPE	PROJECT CODE	SUB PROJECT CODE	SAMPLE REMOVAL DATE	EXPOSURE DATE	SAMPLE END HR	SAMPLE START HR	PREC. TYPE	PREC. AT EXP	PREC. AT REM.	GAUGE TYPE	GAUGE DEPTH(MM)	EFFICIENCY %
00074297	AP02132	PR	02	01	JAN 27, 1987	DEC 30, 1986	1340	1700	2			9	36.1	57.59
00074313	AP02167	PR	02	01	FEB 24, 1987	JAN 27, 1987	1045	1340	3			2	5.4	66.16
00074323	AP02186	PR	02	01	MAR 24, 1987	FEB 24, 1987	1000	1045	3			2	25.0	64.06
00074339	AP02226	PR	02	01	APR 21, 1987	MAR 24, 1987	1530	1000	3			2	85.2	45.73
00074361	AP02226	PR	02	01	MAY 19, 1987	APR 21, 1987	1000	1545	1			2	22.0	94.36
00074377	AP02255	PR	02	01	JUN 16, 1987	MAY 19, 1987	1400	1000	1			3	28.0	85.14
00074392	AP02279	PR	02	01	JUL 14, 1987	JUN 16, 1987	1500	1400	1			3	98.0	81.93
00074407	AP02321	PR	02	01	AUG 11, 1987	JUL 14, 1987	1000	1500	1			3	97.0	89.22
00074416	AP02336	PR	02	01	SEP 8, 1987	AUG 11, 1987	1030	1000	1			3	60.0	78.54
00074435	AP02357	PR	02	01	OCT 6, 1987	SEP 8, 1987	1430	1030	1			3	107.0	69.95
00074444	AP02407	PR	02	01	NOV 3, 1987	OCT 6, 1987	1030	1430	1			1	60.0	5.80
00063786	AP02412	PR	02	01	DEC 1, 1987	NOV 3, 1987	1015	1030	3			2	35.5	3.47
00074464	AP02447		02	01	DEC 29, 1987	DEC 1, 1987	0000	1015	3			2	70.2	4.26

SAMPLE NUMBER	FIELD COMMENTS	OFFICE COMMENTS	VOLUME ML	CONDUCT UMHO/CM		LAB.PH		ACIDITY.TFE		SULFATE MG/L		NITRATE MG/L		CALCIUM MG/L
00074297	P		675	32.20		4.32		****		2.60		0.69		0.32
00074313			116	57.00	B	7.19		****		6.90	UG	2.20		5.70
00074323			520	21.60		4.73		****		2.40		0.69		0.98
00074339	G		1265	32.84		4.34		****		3.70		0.57		0.56
00074361			674	57.07		4.56		****	UG	12.70	UG	1.90		3.26
00074377			774	46.45		4.05		****		6.25		0.85		0.80
00074392			2607	46.50		4.04		****		5.10		0.70		0.30
00074407			2810	50.00		4.12		****		5.65		0.70		0.62
00074416	CDF	M	1530	72.50	B	7.68		****		6.30		0.67		0.60
00074435	AF		2430	74.00		3.88		****		7.95		1.10	D	0.74
00074444	G	H	113	27.00		4.42		****		3.70		0.76	D	1.00
00063786	G		40	!NR ****	!NR	****		****	!NR	****	!NR	****	!NR	****
00074464	G	X	97	****		****		****		****		****		****

ONTARIO MINISTRY OF THE ENVIRONMENT
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY
DATA LISTING
CUMULATIVE SAMPLING ANALYSIS RESULTS

---------- REGION-SW STATION-WILKESPORT MIC TYPE A SITE NO.1 ----------

SAMPLE NUMBER	CHLORIDE MG/L	KJELDAHL MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE MG/L
00074297	0.40	0.600	0.050	0.050	0.110	D 0.490	0.011	0.004
00074313	UG 1.40	1.170	D 0.860	0.045	0.640	0.950	<T 0.006	****
00074323	0.25	0.280	0.210	<T 0.020	0.070	0.230	<T 0.005	0.008
00074339	D 0.56	0.540	0.085	D 0.160	D 0.340	0.470	<T 0.008	0.003
00074361	0.69	UG 3.350	0.490	0.370	0.225	2.420	0.128	0.021
00074377	0.25	0.800	0.165	0.065	0.090	0.775	<T 0.008	0.007
00074392	0.15	0.480	0.075	0.070	0.025	0.490	<T 0.006	0.004
00074407	0.23	0.710	0.125	0.050	0.035	0.670	0.010	0.005
00074416	B 1.93	U 7.750	0.180	U 1.140	0.090	U 7.500	U 0.735	< 0.001
00074435	0.31	1.000	D 0.130	0.085	0.035	0.820	0.022	0.005
00074444	0.32	!IS ****	0.125	0.085	0.090	0.640	!IS ****	****
00063786	!NR ****	!NR ****	!NR ****	!NR ****	!NR ****	!NR ****	!NR ****	****
00074464	****	****	****	****	****	****	****	****

SAMPLE NUMBER	NICKEL MG/L	ZINC MG/L	IRON MG/L	LEAD MG/L	VANADIUM MG/L	ALUMINUM MG/L	COPPER MG/L	ACIDITY GRAN UG/L
00074297	D 0.0025	1DT 0.023	0.024	< 0.002	D 0.0012	0.067	B 0.0153	80.40
00074313	****	****	****	****	****	****	****	LG 17.30
00074323	0.0003	0.010	0.032	D 0.014	0.0005	0.058	0.0013	43.30
00074339	0.0007	1DT 0.008	0.025	0.004	< 0.0004	0.049	1DT 0.0010	76.90
00074361	0.0011	1DT 0.017	0.086	0.004	0.0005	0.130	0.0013	67.40
00074377	D 0.0004	1DT 0.005	0.042	< 0.002	< 0.0004	0.115	0.0012	114.00
00074392	0.0005	1DT 0.007	0.027	1DT 0.003	< 0.0004	0.028	1DT 0.0004	119.00
00074407	< 0.0002	1DT 0.008	0.045	0.010	0.0004	0.055	1DT 0.0019	110.00
00074416	0.0004	0.024	0.058	< 0.002	0.0007	0.055	D 0.0050	LG 9.36
00074435	D 0.0007	1DT 0.007	0.032	0.013	0.0007	0.027	0.0015	169.00
00074444	****	****	****	****	****	****	****	74.90
00063786	****	****	****	****	****	****	****	!NR ****
00074464	****	****	****	****	****	****	****	****

PART VIII

QUéBEC INTERCOMPARISON SITE LISTINGS

ONTARIO MINISTRY OF THE ENVIRONMENT
AP10S - ACIDIC PRECIPITATION IN ONTARIO STUDY
DATA LISTING
CUMULATIVE SAMPLING ANALYSIS RESULTS

---------- REGION=Z STATION=SUTTON MIC TYPE A SITE NO.1 ----------

SAMPLE NUMBER	SUBMISSION NUMBER	LIS SAMPLE TYPE	PROJECT CODE	SUB PROJECT CODE	SAMPLE REMOVAL DATE	EXPOSURE DATE	SAMPLE END HR	SAMPLE START HR	PREC. TYPE	PREC. AT EXP	PREC. AT REM.	GAUGE TYPE	GAUGE DEPTH(MM)	EFFICIENCY %
00075075	AP02121	PR	02	01	JAN 31, 1987	DEC 30, 1986	1305	1040	2		1	2	80.0	65.68
00075090	AP02135	PR	02	01	FEB 24, 1987	JAN 31, 1987	1035	1315	2	1		2	26.0	76.41
00075104	AP02173	PR	02	01	MAR 24, 1987	FEB 24, 1987	1114	1050	3			2	36.0	72.55
00075119	AP02190	PR	02	01	APR 21, 1987	MAR 24, 1987	1000	1125	3			2	4.1	172.03
00075133	AP02219	PR	02	01	MAY 19, 1987	APR 21, 1987	0920	1015	3			9	32.8	151.56
00075155	AP02238	PR	02	01	JUN 16, 1987	MAY 19, 1987	1130	0940	1			9	102.5	140.57
00075173	AP02255	PR	02	01	JUL 14, 1987	JUN 16, 1987	0815	1130	1			9	69.3	55.33
00075188	AP02279	PR	02	01	AUG 11, 1987	JUL 14, 1987	0940	0945	1			9	113.6	38.64
00075203	AP02321	PR	02	01	SEP 8, 1987	AUG 11, 1987	0900	0940	1			1	38.0	70.35
00075225	AP02346	PR	02	01	OCT 6, 1987	SEP 8, 1987	0935	0915	3			2	157.0	89.30
00075240	AP02374	PR	02	01	NOV 3, 1987	OCT 6, 1987	1005	0955	3		1	1	71.0	96.39
00075262	AP02397	PR	02	01	DEC 1, 1987	NOV 3, 1987	0940	1020	3			9	90.9	100.06
00075287	AP02439	PR	02	01	DEC 29, 1987	DEC 1, 1987	1055	0950	3		1	9	52.1	69.11

SAMPLE NUMBER	FIELD COMMENTS	OFFICE COMMENTS	VOLUME ML	CONDUCT UMHO/CM		LAB.PH		ACIDITY.TFE		SULFATE MG/L		NITRATE MG/L		CALCIUM MG/L	
00075075		Z	1706	17.60		4.53		****		0.95		0.42		0.14	
00075090		Z	645	37.80		4.08		****		1.70		1.05		0.16	
00075104			848	14.00		4.47		****		1.30		0.26		0.10	
00075119	IFA	C	229	8.00	U	3.90		****	UG	4.55		1.06		0.14	
00075133	ACP		1614	36.50		4.32		****		5.15		0.83	UG	1.08	
00075155	Q	NHM	4678	53.56	UG	7.52		****		4.95		0.46		0.18	
00075173	DCA	HM	1245	30.40	UG	7.22		****		3.40		0.40	<T	0.10	
00075188	C	NHM	1425	24.90		4.30		****		2.80	<T	0.05		0.12	
00075203			868	22.00		4.49		****		2.50		0.28		0.30	
00075225			4552	15.00		4.54		****		1.45		0.25		0.12	
00075240		M	2222	28.00		4.34		****		1.90		0.57	<T	0.06	
00075262	A		2953	24.00		4.46		****		1.85		0.55		0.32	
00075287			1169	32.50		4.14		****		1.90		0.82		0.18	

ONTARIO MINISTRY OF THE ENVIRONMENT
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DATA LISTING
CUMULATIVE SAMPLING ANALYSIS RESULTS

---------- REGION=Z STATION=SUTTON MIC TYPE A SITE NO.1 ----------

SAMPLE NUMBER	CHLORIDE MG/L	KJELDAHL MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM MG/L	PHOSPHOR MG/L	MANGANESE MG/L
00075075	0.16	0.300	<T 0.005	<T 0.025	0.070	0.235	<T 0.007	0.004
00075090	0.30	0.430	<T 0.015	<T 0.020	0.135	0.355	<W 0.002	0.003
00075104	0.09	0.140	<T 0.010	<T 0.010	0.065	LG 0.055	<T 0.005	0.001
00075119	0.38	0.760	0.025	0.040	0.195	0.410	0.020	0.004
00075133	0.21	0.950	UG 0.200	0.065	0.090	0.760	0.016	UG 0.029
00075155	0.42	!CR ****	0.030	U 0.790	0.225	U 10.000	U 0.194	0.003
00075173	0.30	UG 5.650	<T 0.010	0.410	0.025	UG 3.200	0.285	< 0.001
00075188	<T 0.05	0.350	<T 0.020	<T 0.015	<W 0.005	0.290	<W 0.002	0.001
00075203	0.07	0.220	0.040	<T 0.005	<T 0.015	0.230	<T 0.002	0.009
00075225	0.08	0.170	<T 0.015	0.035	0.030	0.155	<T 0.003	0.002
00075240	0.11	0.270	<T 0.010	<W 0.005	0.025	0.180	<T 0.004	0.002
00075262	0.25	0.530	0.030	0.065	0.065	0.315	0.024	0.003
00075287	0.20	0.210	<T 0.010	<T 0.010	0.095	0.150	<T 0.005	0.006

SAMPLE NUMBER	NICKEL MG/L	ZINC MG/L	IRON MG/L	LEAD MG/L	VANADIUM MG/L	ALUMINUM MG/L	COPPER MG/L	ACIDITY GRAN UG/L
00075075	< 0.0002	1DT 0.006	0.010	1DT 0.003	0.0008	0.014	0.0009	50.40
00075090	< 0.0002	UG 0.014	0.022	1DT 0.004	0.0009	1DT 0.030	1DT 0.0006	105.00
00075104	0.0002	1DT 0.003	0.007	1DT 0.002	< 0.0004	1DT 0.015	< 0.0004	53.70
00075119	0.0004	1DT 0.009	UG 0.043	1DT 0.005	0.0011	1DT 0.045	1DT 0.0010	UG 160.00
00075133	0.0011	0.009	0.055	1DT 0.005	< 0.0004	0.048	UG 0.0095	129.00
00075155	0.0005	0.012	0.054	1DT 0.002	< 0.0004	0.087	0.0011	29.80
00075173	< 0.0002	1DT 0.001	0.023	1DT 0.002	< 0.0004	0.024	0.0017	24.60
00075188	0.0002	< 0.002	0.014	1DT 0.002	< 0.0004	< 0.009	0.0008	74.10
00075203	< 0.0002	1DT 0.005	0.019	0.008	< 0.0004	1DT 0.029	1DT 0.0005	57.10
00075225	0.0002	1DT 0.001	0.007	0.010	0.0015	0.007	0.0005	51.10
00075240	0.0004	1DT 0.001	0.009	0.013	< 0.0004	1DT 0.015	0.0007	78.50
00075262	< 0.0002	< 0.001	0.009	0.004	< 0.0004	< 0.007	1DT 0.0005	76.70
00075287	< 0.0002	< 0.002	1DT 0.008	0.006	0.0005	1DT 0.014	0.0005	100.00

^Z